Revised

CLASS B
NOTES & Correspondence

MYSORE GOVERNMENT SECRETARIAT

3016 P143 G

File No. PWD 396 ESH 57

Department of Public Works

Section Electrical

7

Subject: Purchase of equipment and machinery for Sharavathi Valley Project

References: Letter No. 318-30/PS/S dated the 11th November 1959 from the Spl. C.E. S.V.P.

Date	To whom sent	Notes and instructions
5/11/59	Ex/S. Elect.	
	Issued in PWD 394 ESH 59 dated 5th January 60 The Spl. C.E. SVP The A.E. Mysore Through FD The E.A.O. SVP	
	(E)	
	20/4/59 4/3/60	

Purchase of equipment & machine for Sharavathi Valley Project

Mysore Government Secretariat

File No. P(D) 394 ES 59 of 1959.

[App. F. III 2

12172

12173

Serial No.

Letter No. 318-20/P.S/S. dated the 11th November 1959 from the Special Officer, Bangalore, S.V.P.

Forwards the agenda for the Ad-hoc Committee meeting.

Letter dated the 17th November 1959 from Messrs. Voltas Ltd, Bangalore.

Requests that orders may be placed with them for D8 Caterpillar Crawler Tractor Model.

1) As ordered a copy of the minutes of the meeting has been forwarded to the members of the Ad-hoc Committee. A draft G.O. is put up for approval. This may be issued after concurrence of F.D. and approval of the Minister for Rs

2) 9-0/11 M/s Voltas have addressed in their letter dt 17.11.59 after the ad-hoc committee considered their tender and decided the question. As the Spl C.E. did not prefer their

Note.—Contn. Sheet

File No. of 195

Mysore Government Secretariat

Serial No.

operation on technical consideration (as could be seen from the proceedings of the Committee) the Committee decided and accepted the operation of rule drawn and Turbo

the decisions of the Committee and the draft G.O. put up alongwith are for Commence.

Sd/- Illegible
for Secy
20/11/59

1-1
W No 3681/WSI
dt 21.11.59.

4) 26/XI

R. A. NAIK,
Dy. Secy., Finance Dept.
(Works and Schemes).

SECRETARY TO GOVERNMENT
27 NOV 1959
ES 318
PUBLIC WORKS & ELEC. DEPTT.

w to PWD 11 26-XI-59

5) In view of the representation received in the regard to use of (Dull dozer) in stony it has been suggested that Illegible may be considered agreed at a meeting of above committee in regard to other items, not mentioned above.

OFFICE OF THE MINISTER FOR PUBLIC WORKS
No. 6443
27 NOV 1959
BANGALORE

6) Illegible
20/12 Illegible
Illegible
Illegible P.W.D.
dt 21/12

SECRETARY TO GOVERNMENT
21 DEC 1959
PUBLIC WORKS & ELEC. DEPTT.

WD 04700—GPB—PZS—8,00,000—1958

D. K. SRINIVASACHAR
Secy. P. W. & Elec. Depts.

Serial No.

7) The Ad hoc Committee again considered the question and it finally decided at its meeting held on 15/12/59. that the decision taken at the earlier meeting on 16-11-59 to place orders with Messrs. Larsen & Toubro for the Bull dozer (D8 Crawler Tractor) amounting to Rs 2,65,440/- F.O.R. Madras be confirmed.

8) The draft G.O. approving this purchase already put up is now for approval. Submitted to Deputy Secretary.

22/12

9) For perusal before move F.D. has already agreed to in terms of the ad-hoc Committee.

Minister P.W. & E.)

Dy Secy P.W.D
28.12.59
(Secy P.W.D. out of station)

OFFICE OF THE MINISTER FOR PUBLIC WORKS No. 7016. 28 DEC 1959 BANGALORE

10) Heel
30/12
E. M. CHANNABASAPPA
Minister for P. W. & Electricity.

SECRETARIAT TO GOVERNMENT (W) 31 DEC 1959 PUBLIC WORKS & ELEC. DEPTT.

11) dm
31/12

12) Issue
31/12

Note.—Contn. Sheet

File No. Prog 394 E&L 59 of 195 .

Mysore Government
Secretariat

Serial No.

F.D. for Comm.
N.L. 5-1-60.

H. Comm. No 186 dt 5-1-60

Issued
N.L. 6/1/60

Issued
5-1-60.

Issued 6/1/60.

B

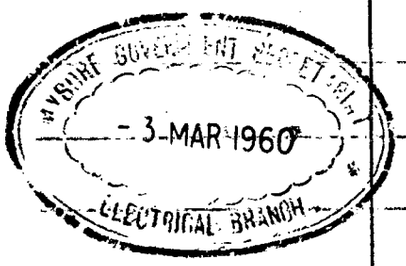
3/61

Mysore Government
Secretariat

[App. F. III 2

File No. PWD 394 ESH 59 of 195

Serial No.



The PWD File bearing No. PWD 394 ESH 59 is placed, after destringing the papers of the SPC. as desired.

Supt'd PWD (Elect) — R.M.Ramaiah 2/3/60.

for PA to Dy. Minister for Finance

The papers will now be sent.

3/3

3/3

4/3

4/3/60

Note.—Contn. Sheet

RWD 394 E 6#59

Govt. of Mysore.

Office of the Special Chief Engineer,
Sharavathi Valley Project,
Kargal, Camp:Bangalore,
11th November, 1959.

No.318-20/PS/S.

MYSORE GOVERNMENT
72173
20 NOV 1959
ELECTRICAL BRANCH

To

SECRETARY TO GOVERNMENT
No.....
11
PUBLIC WORKS & ELEC. DEPTT.

1. TheSecretary to Government of Mysore,
Public Works & Electricity Departments,
Bangalore.

2. The Secretary to Government of Mysore, (or his nominee)
Finance Department,
Bangalore.

3. The Secretary,
Stores Purchase Committee,
Bangalore.

Sir,

Sub: Purchases of equipment and machinery for Sharavathi Valley Project -- Meeting of the ad-hoc Committee --

A meeting of the ad hoc Committee for the purchases of equipment and machinery for Sharavathi Valley Project is proposed to be convened on 16th November, 1959, at 4 P M in the Chambers of the Secretary to Government of Mysore, Public Works & Electricity Departments, Vidhana Soudha, Bangalore, and I request you to kindly make it convenient to attend.

The agenda for the meeting and notes on the subjects included therein is enclosed herewith.

Yours faithfully,

(L.C. MUNISWAMY REDDY),
Special Chief Engineer, S.V.P.

Encl: Agenda & Notes.

A G E N D A

S.No.	Subject	Approximate cost: Taxes extra
		Rs.
1.	Bull-dozer required for Rehabilitation work.	2,06,000/-
2.	Purchase of Pipes and Fittings.	1,49,000/-
3.	Purchase of Electric Motors required for Air Compressors.	28,000/-
4.	Purchase of Blue Printing and Ammonia Printing Machine.	21,000/-
5.	Other subjects:	
	(a) Purchase of 500 numbers of Tungsten Carbide tipped drill rods for Sharavathi Valley Project.	
	(b) Purchase of copper wire required for S.V. Project.	
	(c) Purchase of materials required for operating the mortar mills.	

(L.C. MUNISWAMY REDDY),
Special Chief Engineer,S.V.P.

(Notes enclosed in the above order)

@@@@@@@@@@@@

A G E N D A

S.No.	Subject	Approximate cost: Rs.
		Taxes extra
1.	Bull-dozer required for Rehabilitation work.	2,06,000/-
2.	Purchase of Pipes and Fittings.	1,49,000/-
3.	Purchase of Electric Motors required for Air Compressors.	25,000/-
4.	Purchase of Blue Printing and Ammonia Printing Machine.	21,000/-
5.	Other subjects:	
	(a) Purchase of 500 numbers of Tungsten Carbide tipped drill rods for Bharavathi Valley Project.	
	(b) Purchase of copper wire required for S.V. Project.	
	(c) Purchase of materials required for operating the mortar mills.	

(L.C. MUNISWAMY REDDY),
Special Chief Engineer, S.V.P.

(Note:- enclosed in the above order)

Mysore Public Works Department. Sharavathy Valley Project, Kargal.

SubjectNo. I: Bulldozer required for Rehabilitation work:

Government have sanctioned in their order No. PWD 80 ESH 57 dated 16th July 1959 an estimate for Rs.2.20 lakhs for the purchase of two lorries and one Bulldozer exclusively for Rehabilitation work of the Sharavathy Valley Project, and the provision against the bulldozer in this estimate is Rs.1,58,655/-.

Tenders for the above were called for by the Executive Engineer, Stores Division, Kargal, giving necessary publicity in the Mysore Gazette fixing the last date for receiving the tenders as 12-10-1959. In response to the above, quotations were received from the following five firms:

1. M/s. Standard Machinery Co., Private Ltd.,Bangalore.
2. M/s. Greeves Cotton and Co., Ltd., Madras.
3. M/s. William Jack and Co., Ltd., Madras.
4. M/s. Voltas Ltd., Bangalore.
5. M/s. Larson Toubro Ltd., Madras.

The tenders of the first three firms are not considered, since the draw bar HP. specified in the departmental specifications is not complied with by these firms. The draw bar HP. offered by these firms varies from 125-165 as against about 200 HP. specified.

M/s. Voltas Ltd., Bangalore (item 4) have offered TD-25 International Crawler Tractor of 185 draw bar HP. at a cost of Rs.2,05,840/- FOR.Madras including accessories. Their specifications except for the following are in accordance with the departmental specifications.

a) The firm has offered a tractor with metallic plate clutch and planet power steering as against oil type fly wheel ~~which~~ clutch and oil type steering clutch specified.

b) 24 Volts Electric starting system offered as against 6 V. generator specified for starting engine.

M/s. Larsen Toubro & Co., Madras have offered D-8 Catter Piller Crawler Tractor of draw bar HP. 185 at a cost of Rs.2,17,608/- F.O.R. Talaguppa including accessories. The deviations from the departmental specifications are:-

a) Tractor with 6 roller track frame as against 7 roller track frame specified.

b) 12 V Electric starting system starting engine against 6 V generator with starting engine.

As both the TD-24 and D-8 types of equipment are working at present

in the project and as some spares are available in the project, the purchase of any one type offered by 4 and 5 facilitates easy interchangeability of spare parts thus reducing the acquiring of the spares.

The offer of M/s. Voltas and Co., Bangalore being the lower of items 4 and 5 and as this also satisfies most of the departmenta-l specifications is therefore recommended for purchase.

Comparative statement of tenders received is enclosed.

Special Chief Engineer,
Sharavathy Valley Project.

ms.8/11

MYSORE PUBLIC WORKS DEPARTMENT.

SHARAVATHI VALLEY PROJECT:
KARGAL.

P R O F O R M A.

SUBJECT:1 -- BULL-DOZER REQUIRED FOR REHABILITATION WORK.

1. Name of the equipment required:-	EARTH-MOVING EQUIPMENT GRAWLER TRACTOR WITH ATTACHMENTS.
2. No. required.	1 (ONE)
3. a) Date of calling for tenders or quotation.	17th September 1959.
b) Last date for receipt of tenders.	12th October 1959.
4. No. of tenders or quotation received.	5 (FIVE)
5. Comparative statement to be enclosed and the name of the lowest tender or quotation.	RECOMMENDATIONS MADE IN THE COMPARATIVE STATEMENT ENCLOSED.
6. Firm recommended for purchase.	MESSRS. VOLTAS LTD., BANGALORE.
7. Reasons in case other than the lowest is recommended.	--
8. Cost of equipment.	2,05,840/-
9. a) Provision for the same in the estimate	1,58,655/- Sanctioned in C.O. PWD 80 SHI 57 dated 16th July 1959.
b) Budget	LAND COMPENSATION.

Special Chief Engineer,
Sharavathi Valley Project.

rv.

MYSORE PUBLIC WORKS DEPARTMENT

COMPARATIVE STATEMENT FOR EARTHMOVING EQUIPMENT (CRAWL

--:--

Sl. No.	M/s. Standard Machinery Co., (Private) Ltd., Silver Jubilee Park Road, Bangalore-2 Ref:-C/482/810 dated 8-10-59.	M/s.Greeves Cotton and Col, Ltd., 19, Second Line Beach, P.O.B.No.207 Madras-1 Ref:-SK:CK: TRACTOR.	M/s. William Jacks & Co., Limited, Ist Line Beach, P.O.Box No. 1282 Madras-1 Ref:-MEV:BSR 7 8-10-1959.	M/s. Voltas Limited Ref:- ✗ CE:407-File E 93
1	2	3	4	5
	The Tenders ~~for~~ of the above three Firms (2, 3 & 4) are not considered since the Draw Bar H.P. Specified in the Departmental Specifications is not complied by these Firms. The Draw Bar H.P. offered by these Firms varies from 125 to 165 as against 200 H.P. specified.			International Crawler Trac Engine Horse Power - 230 Drawbar Horsepower - 185 International 6-Cylinder 4 with inbuilt Gasoline Elec 7-Roller Track Frame 80" Gauge 22" Har-Grouse Planet Power Steering etc. WITH extras and attachments as quotation. Amount as per Quotation Ra F.O.R.Madras including acc " RECOMMENDED

DEPARTMENTAL SPECIFICATIONS AS NOTIFIED.

EARTHMOVING EQUIPMENT CRAWLER TRACTOR WITH ATTACHMENTS.

Tractor:- Diesel Model Crawler Tracotor, 78 inch gauge having 24" hard Growser tracks, 7 roller track frame and two upper idlers on each side, fitted with the following:-

Mountings:- 1) One 4 Stroke cycle, valve in head, Six Cylinder Diesel Engine supplying about 200 drawbar H.P. at 1800 rpm.
2) An independent two cylinder, 4 cycle gasoline starting Engine,
3) Electric Starter, including a 6 volt 40 amps generator for sta handle and electric lighting system with necessary guard etc., complete with d
4) Heavy duty radiator guard, Rigid draw bar, Oil type, fly wheel clutches, brakes, Hydraulic track adjuster, Hour meter, fuel gauge, etc., comp

Attachments:- 1) Front mounted single drum cable control unit for operating th type, cable operated, blade angle being about 20°, length about 13'-6" height

ACCESSORIES:- a) Crank case guard with front pull hook. (b) Half set of stree and lock washers for grouser-track shoes. (c) Rain Trap. (d) Canopy group - cover at top. (e) Push Plates. Two Nos. - (i) One for mounting on the crawle mounting on the blade. (f) One set of common tools, Special Tools, Complete k and operating the above unit etc.

N..B.-Any other alternatives in the operation of blade, starting device, clutc also be quoted.

Gsm/-

SHARAVITHY VALLEY PROJECT, KARGAL.

TRACTOR WITH ATTACHMENT).

Bangalore: 5 dated 9-10-59.	M/s. Larsen & Toubro Limited, 4-5 Club House Road, Mount Road, Madras-2 Ref:- CAT/SUB/293 /1594 dated 19-10-1959.	Remarks.
	6 | 7	
r Model TD-25	"CATERPILLAR" Diesel Model D8 Crawler Tractor, Series F, Direct Drive, 84-inch gauge with 2 inch hard grouser tracks, six-roller track frame, Adjustable Idlers, ~~equipment~~ equipped with:	
ycle diesel Engine ic starting ~~Engine~~ System Shoes, as per quotation	"CATERPILLAR" 4-stroke cycle, valve-in head-, six-cylinder, 5¾" x 8", Turbocharged Diesel Engine, developing 235 H.P. at the flywheel, Drawbar H.P.185, etc., with attachments and accessories as per quotation rates	
ted in the		
s, is Rs 2,05,840/- sories. Taxes extra	Amount as per Quotation Rates is Rs 2,17,608/- F.O.R.Talaguppa including accessories.	

2098.60
212.68
3055

ing the Engine, starting
h light & 4 white lights.
lutch, Oil type steering
te. App. Weight 40,000 Lbs.
Bulldozer. Angling blade-
-8", lift 4'-6".
plates with bolts, nuts
pen type having only a
tractor. (ii) One for
erature for servicing

mechanism etc., may

Special Chief Engineer, SVP.,
Kargal.

Mysore Public Works Department. Sharavathy Valley Project, Nargal.

Purchase of Pipes and Fittings required for Water Supply to Mortar Mills and Air Lines for Compressors.

An estimate for Rs.1,78,700/- for the purchase of the above is sanctioned in Government Order No. 243 ESH 59 dated 12-10-1959. Directions were also given in the Government order that ~~while~~ wide publicity should be given to the notification both in the Mysore Gazette and in the Local News Papers. As Quotations were called for in the Mysore Gazette fixing the last date for receiving quotations as 14-9-1959. This could not be published in Local N-eswpapers, as Government order was received subsequent to the date of notification in the Gazette.

In response to the above, 34 quotations were received by the Executive Engineer, Stores Division. As full details were not furnished by most of the firmsregarding the particulars of quality, make and terms of delivery etc., clarifications were called for from all the firms by the Executive Engineer. In order to secure firm quotations on account of large number of firms quoting for the same, an earnest money deposit of Rs.2,500/- was requested to be furnished by the firms. Only seven firms noted below furnished the required deposit called for together with the particulars requested ~~for~~:

1. M/s. Calcutta Machine Tools Corporation, Banga-lore.
2. M/s. South India Corporation, Madras-1.
3. Tube Tools Co., Bombay, Bangalore-3
4. M/s. M.C. Sunderajan, Madras.
5. M/s. Fakhri Hardware Stores, Madras
6. M/s. Brindavan Electricls, Bangalore
7. M/s. Madras Circle Pipe Dealers Association, Madras.

In addition M/s. Natwerlal and Co., Bombay have written a letter dated 20-10-1959 to the Executive Engineer to the effect that they have sent a Bank Draft for Rs.2,500/-, but the same has not been received so far in the Division Office. As the quotation of this firm for most of the items is the lowest, this quotation has also been taken for consideration for the purpose of comparative statement.

The comparative statement is enclosed. The ~~statement of~~ purchases proposed to be made from the different firms is also ~~enclosed~~ indicated in Cols 12 & 13

The firms with which orders will be placed will be ~~mk~~ asked to deposit 5% security deposit as per tender notification.

M/s. Netwerlal and Co., will be requested to furnish the 5% deposit before purchase order is placed with the firm, and if the firm fails to furnish this deposit, orders will be placed with the firm whose quotation is next higher and the difference in cost on this account will be nearly Rs.8,000/-.

Special Chief Engineer,
Sharavathy Valley Project.

ms.8/11

MYSORE PUBLIC WORKS DEPARTMENT

SHARAVATHI VALLEY HYDRO-ELECTRIC PROJECT, KARGAL.

SUBJECT NO:- 2.

PURCHASE OF PIPES AND FITTINGS REQUIRED FOR WATER SUPPLY TO MORTAR MILLS AND AIR LINES FOR COMPRESSORS.

****

1.	Name of the equipment:	Pipes and Fittings
2.	Numbers required.	Detailed in the comparative statement.
3.	Date of calling for tenders and quotations last date for receipt of tenders.	22nd August, 1959. 14th September, 1959.
4.	No. of quotations received.	34 (out of which 8 are considered)
5.	Comparative statement to be enclosed and the name of the lowest tender quotations.	Enclosed.
6.	Firm recommended for purchase.	Detailed in comparative statement.
7.	Reasons in case other than the lowest is recommended.	-do-
8.	Cost of equipment.	1,48,800/- + Taxes etc.,
9.	Provision for the same in the estimate.	1,78,700/- sanctioned in G.O. No. 243 ESH 59 dated 12-10-1959.
	b) Budget.	'STOCK'
10.	R e m a r k s.	

(L.C.MUNISWAMY REDDY),
SPECIAL CHIEF ENGINEER,
SHARAVATHI VALLEY PROJECT.
KARGAL.

HSS.

Mysore Public Works Department. Sharavathy Valley Project, Kargal.

Purchase of Electric Motors required for Air Compressors.

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An estimate for the purchase of Prime Movers for Air Compressors is sanctioned for Rs.1.00 lakh in Government Order No. PWD 147 SVP 58 dated 20-11-1958.

Tenders were called for, for the purchase of 4 Nos. of 30 HP. motors and 2 Nos. of 75 HP. slipring AC. motors with starters in the Gazette Notification fixing as 12-10-1959 as the last date for receipt of tenders. An earnest money deposit of Rs.500/- was also stipulated. In response to the notification, eleven quotations have been received from the following firms:-

1. M/s. Voltas Limited, Bangalore-1
2. M/s. Tropical Engineering Co., Bombay
3. M/s. Gold Smith Sons & Co., Bombay-1
4. M/s. General Industrial Stores, Calcutta-1
5. M/s. Electrical Devices & Co., Bangalore-1
6. M/s. M. Srinivasacharlu & Co., Bangalore
7. M/s. New Hindusta n New Electricals, Madras
8. M/s. Modern Industiral Equipment, Co., Bangalore
9. M/s. Champion Traders, Bombay
10. M/s. Chandra Electricals, Bangalore
11. M/s. Nav Bharath Electric, Bangalore.

The quotation of M/s. Voltas Ltd., Bangalore for 30 HP. motors with starter is the lowest and is recommended for purchase, the rate being Rs.2,050/- each plus taxes, F.O.R. Bangalore or Cochin, sale subject to prior sale. They have also stated that terms of payment are 30% with the order and the balance against R.R. through Scheduled Bank. Regarding earnest money, the firm has stated that they have furnished a bank guarantee to the Secretary, Stores Purchase Committee, for Rs.25,000/- towards permanent earnest money deposit and requests exemption from the payment of Earnest Money Deposit. In view of this Bank Guarantee, the earnest money deposit may be waived. The number required is 4 ~~Nos.~~

Regarding 75 HP. slipring motor with oil immersed starter, the lowest offer is of M/s. Gold Smith Sons and Co., Bombay, vide item No.3. The price offered is Rs.9,500/- nett each with the delivery terms being February 1960 ~~and the equipment being of Hindustan make~~, the same has not

not been recommended.

The next higher tender of M/s. Tropical Co., Bombay vide item 2 &, who have quoted a price of Rs.9,600/- F.O.R. Bombay for 76 HP. motor with oil, Rotor/Stator/Starter: delivery terms being from Ready Stock. Regarding payments, it is stated ~~x~~ by this firm that 1/3 advance with the order and the balance against R.R. through Bank, the supply is subject to prior sale. Insura-nce and Sales tax will be extra as leviable at the time of supply. The firm has not furnished any earnest money deposit.

This quotation is recommended by the Executive Engineer for purchase. Necessary 5% deposit will however be asked to be furnished from the firms before the orders are placed. Comparative statement of quotations received is herein enclosed. The number required is 2 Nos.

The value of purchase regarding four Nos. of 30 HP. motors including starters will be Rs.8,200/- exclusive of taxes frieght etc., and in respect of 76 HP. ~~of~~ motors, the cost will be Rs.19,200/- for two two motors exclusive of taxes.

Special Chief Engineer,
Sharavathy Valley Project.

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Mysore Public Works Department. Sharavathy Valley Project, Karwar.

PROFORMA.

Purchase of Electric Motors required for Air Compressors.

1. Name of the equipment required.	Electric motors 30 HP. and 75 HP.
2. Nos. required	4 Nos. of 30 HP. 2 Nos. of 75 HP.
3. a) Date of calling of tenders or quotations.	September , 24, 1959.
b) Last date for receipt of tenders.	12th October 1959.
4. No. of tenders or quotations received.	Eleven.
5. Comparative statement.	Enclosed.
6. Name of the lowest tender or quotation, and firm recommended for purchase.	1. 30 HP. - M/s. Voltas Limited, Bangalore. Lowest. 2. 75 HP. - M/s. Tropical Co., Bombay. - From Ready Stocks.
7. Reasons in case other than the lowest is recommended.	
8. Cost of equipment.	Rs.27,400/- Plus all other charges extra.
9. a) Provision in the Estimate	An estimate for the purchase of Prime movers for Air Compressors is sanctioned for Rs.1.00 lakh in G.O. No. XXX PWD. 147 SVP 58 dated 20-11-1958.
b) Budget.	

Special Chief Engineer,
Sharavathy Valley Project.

ms.9/11

MYSORE PUBLIC WORKS DEPARMENT.

COMPARATIVE STATEMENT FORTHE QUOTATIONS RECEIVED FOR THE PURCHAS

Sl. No.	Departmental specifications.	Nos. required.	M/s. Voltas Limited, Bangalore.1	M/s. Tropical Engineering Co., Bombay.
1	2	3	4	5
1.	30 HP. 1455 rpm. suitable for operation on A.C. 400/ 440 volts 50 cycles 3 phase with bare shaft including starters.	4NOS.	'BIECCO' Screen protected, squirrel cage induction motor, 400/ 440 volts, 3-phase, 50 cycles, rated for 30HP, 1455 rpm, with 'MEI' oil immersed star delta starter type NSD, for the above mortar. Each F.O.R. Bangalore/ Cochin, Rs. 2,050/-. Taxes and all other charges extra. Lowest - RECOMMENDED.	
2.	75 HP.slipering Ac.electrical motor suitable for operation on 3-phase, 50 cycles,400/440 volts for supply with a speed of 960 rpm. The supply should include oil immersed motor starter suitable for the above with switches etc., complete.	2 NOS.		Brand new Sliperin Electric motors AC 440/3/50 Cycles co lete with suitable oil immersed Rotor Stator/starter, 7 960 rpm. Higgs. Each F.O.R.Bombay at Rs. 9,600/- ready stocks RECOMMENDED.

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SHARAVATHY VALLEY PROJECT, KARGAL.

OF ELECTRIC MOTORS REQUIRED FOR AIR COMPRESSORS.

/s. Goldsmith Sons Co., Bombay-1.	7) M/s. General Industrial Stores, Calcutta-1.	11) M/s. Modern Industrial Equipment, Co.,
	8) M/s. Electric Devices Co., Bangalore-1.	12) M/s. Champion Traders, Bombay.
	9) M/s. M. Srinivasacharlu & Co., Bangalore.	13) M/s. Chandra Electricals, B'lore.
6	10) New Hindustan New Electricals, Madras.	14) M/s. Nav Bharath Electric - B'lore.

THE ABOVE FIRMS (Sl.No. 7 to 14) ARE NOT CONSIDERED.

75 HP. slipring Hindustan make A.C./3 phase 50 cycles, 400/440 volts, 960 rpm. IP electric motor with oil immersed starter.

Each F.O.R. Bombay at Rs. 9,500/- Delivery in February 1960. Lowest.

-X-X-X

Mysore Public Works Department. Sharavathy Valley Project.

Purchase of Blue Printing and Ammonia Printing Machine, Revolute Meteor '40'.

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An estimate for Rs.32,500/- for the supply of drawing materials for the Designs Section has been sanctioned in G.O. No. PWD 173 SVP 58 dated 20th March 1959. The amount provided for the above equipment in the estimate is Rs.15,000/- only.

Quotations were invited for the above by the Executive Engineer, Stores Division, Kargal, fixing the last date for receipt as 13-9-59. In response, only one quotation from M/s. Easun Engineering Co., Ltd., Madras is received. The specification offered by the firm agree with the specification noted in the departmental specification.

The purchase is recommended by the Superintending Engineer, Talakalale Reservoir Circle, Kargal. The following are the further particulars regarding the supply:-

Price:- The price offered by the firm is Rs.21,000/- F.O.R. Madras (against Rs.15,000/- provided in the estimate) and subject to:-

a) Acceptance by the firm or the Principals at the time of receipt of order which is based on the following:-

i) Principals' current pricelist
ii) Customs duty 50%
iii) Current frieght and Insurance charges
iv) Exchange rate Rs. 481.5 = U.S. 100 $.

Any variation in the above will be to the purchase's account for which the firm has accepted to produce their Banker's/Audit's certificate, which will be final and conclusive proof.

Sales Tax:- The price indicated does not include any Municipal Provincial or Central Taxes of Sales Tax of any State or Central Sales Tax. These, if any payable, will be extra to the Purchaser's account at the ruling rates.

Delivery:- 4-5 months from the date of receipt of order and import licence. The delivery period reckoned from the date of receipt of import licence by the Principals of the firm. Delivery

Delivery is given in good faith and delay in delivery due to causes beyond the control shall not be valid reason for the cancellation of order or imposition of penalty. The firm has stated that they will endeavour to effect shipment of the machine within the date specified but will accept no liability for failure to do so.

Import Licence: The offer is subject to grant of Import Licence by the Government of India.

Terms of payment:- 90% of the value of the equipment to be paid against despatch of the equipment and the balance 10% on receipt of materials, however not later than 30 days from the date of despatch.

Guarantee:- The guarantee for satisfactory operation and trouble free service of the equipment for a period of 12 months from the date of receipt of equipment is extended by the Principals.

Guarantee on Lamps:- The Lamp fitted to the machine is covered by a separate guarantee for 90 days or 1,000 working hours, which-ever is earlier as extended by the lamp manufacturers.

War Risk Insurance:- This is not included in the price and if it is required to be done due to conditions prevailing at the time of shipment, this will be included as extra to the purchaser's account.

The purchase of the equipment is recommended for the approval of the Committee.

Special Chief Engineer,
Sharavathy Valley Project.

ms.9/11

23)

MYSORE PUBLIC WORKS DEPARTMENT

SHARAVATHY VALLEY HYDRO ELECTRIC PROJECT

P r o f o r m a

Purchase of Machinery and Equipment required for the Project.

1.	Name of the equipment required.	Blue Printing and Ammonia Printing Machine.
2.	No. required.	ONE
3.	a) Date of calling for tenders for quotation.	
	b) Last date for receipt of Tenders.	13-9-1959
4.	No. of tenders or quotations received.	Single Quotation.
5.	Comparative Statement to be enclosed and the name of the lowest tender or Quotation.	Note enclosed.
6.	Firm recommended for purchase.	M/s.EASUN ENGINEERING CO., LTD., MADRAS-1.
7.	Cost of equipment.	Rs. 21,000.00 F.O.R. MADRAS. ALL TAXES EXTRA.
8.	Provision for the same in the Estimate.	Rs 15,000/- provided in the Estimate for Rs 32,500/- sanctioned in G.O.No. PWD 173 SVP 58 dated 20th March 1959.
9.	Budget.	

Gsm/-

L.C.Muniswamy Reddy,
Special Chief Engineer,
Sharavathy Valley Project.

MYSORE PUBLIC WORKS DEPARTMENT SHARAVATHY VALLEY PROJECT

Purchase of 500 Nos. Tungsten Carbide tipped drill rods for Sharavathy Valley Project.

--:--

Short terms local quotations for the supply of the drill rods for Sharavathy Valley Project works were called for by the Executive Engineer during January 1959. In response, three quotations were received from the following firms:-

1) M/s. Vulcan Trading Co., Bombay.
2) M/s. Consolidated Pneumatic Tool Company, Bombay.
3) M/s. Batli Boi (P) Bangalore.

The lowest quotation of M/s. Batli B-oi Limited, who have quoted a rate of Rs. 48.80 each of 800 mm X 34 mm F.O.R. Bombay has been recommended to Government for approval. The total cost of purchase is about Rs. 25,000/- for 500 bits. The firm has requested for necessary import licence duly endorsed in their favour, so that they may supply our requirements. The firm has also offered a special discount of 5% on the above price. Terms of delivery being 6 - 10 weeks Ex-works Vienna after placing of the firm orders and providing them with necessary import licence.

M/s. Vulcan Trading Company, Bombay has offered a rate of Rs. 60.65 each F.O.R. Talaguppa delivery Ex-stock Sweeden. M/s. Consolidated Pneumatic Tool Company, Bombay has offered a rate of Rs. 62.00 each F.O.R. Bombay Ex-works Sweeden. These firms have also requested for the import license being higher has been rejected.

The sanction of Government has been requested during April 1959, for the p-urchase of these drill rods, cost being debited to stock at the first instance and adjusted to works when issued.

Government in their letter No. PWD 121 ESH 59 dated 21st September 1959 have directed that this may be placed before Adhoc Committee and their approval obtained.

Contd.....2

MYSORE PUBLIC WORKS DEPARTMENT SHARAVATHY VALLEY PROJECT

Purchase of 500 Nos. Tungsten Carbide tipped drill rods for Sharavathy Valley Project.

Short terms local quotations for the supply of the drill rods for Sharavathy Valley Project works were called for by the Executive Engineer during January 1959. In response, three quotations were received from the following firms:-

1) M/s. Vulcan Trading Co., Bombay.
2) M/s. Consolidated Pneumatic Tool Company, Bombay.
3) M/s. Batli Boi (P) Bangalore.

The lowest quotation of M/s. Batli B-oi Limited, who have quoted a rate of Rs. 48.80 each of 800 mm X 34 mm has been recommended to Government for approval. The total cost of purchase is Rs. 25,000/- for 500 bits. The firm has requested for necessary import licence duly endorsed in their favour, so that they may supply our requirements. The firm has also offered a special discount of 5% on the above price. Terms of delivery being 6 - 10 weeks Ex-works Vienna after placing of the firm orders and providing them with necessary import licence.

M/s. Vulcan Trading Company, Bombay has offered a rate of Rs. 60.65 each F.O.R. Taiaguppe delivery Ex-stock Sweden. M/s. Consolidated Pneumatic Tool Company, Bombay has offered a rate of Rs. 62.00 each F.O.R. Bombay Ex-works Sweden.

The sanction of Government has been requested during April 1959, for the p-urchase of these drill rods, cost being debited to stock at the first instance and adjusted to works when issued.

Government in their letter No. PWD 121 MSH 59 dated 21st September 1959 have directed that this may be placed before Adhoc Committee and their approval obtained.

Contd.....2

25)

The approval of the Committee is requested for for the purchase.

The original quotations and the Comparative Statement have been submitted to Government for communicating sanction for the purchase.

Special Chief Engineer,
Sharavathy Valley Project, kargal.

Gsm/-

The approval of the Committee is requested for for the purchase.

The original quotations and the Comparative Statement have been submitted to Government for communicating sanction for the purchase.

Encl:-

Special Chief Engineer,
Bharavathy Valley Project, Kargal.

PURCHASE OF COPPER WIRE REQUIRED FOR SHARAVATHY VALLEY PROJECT., NO. 6 B&S AND NO. 10 B&S.

Consequent on the formation of Electrical Sub Division under the Mechanical Division, it was reported by the Executive Engineer, Mechanical Division that certain primary materials like copper wire, flood lights etc., were necessary for the satisfactory maintenance of the Electrical Works in the Project area. The Executive Engineer, Stores Division (Procurement Officer) called for quotations for the supply of Electrolytic hard drawn copper wire No. 6 B&S and No. 10 B&S in addition to other electrical materials. In response to this call, 10 quotations were received by the Executive Engineer, of which only two firms noted below quoted ~~have~~ for No. 6 B&S and No. 10 B&S copper wire:

M/s. Nemichand Electrical Co., Bangalore.
M/s. India Electrical Stores, Bangalore.

The quotations offered by M/s. India Electric Stores for the above grades of copper wires were in accordance with the departmental specifications. Their rate however was Rs. 2.75 per lb for No. 6 B&S copper wire as against Rs. 2=76 quoted by M/s. Nemichand Electric Stores. Again the rate for No. 10 B&S copper wire as quoted by M/s. India Electric Stores was Rs. 2.87 Np. per lb as against Rs. 2.75 quoted by M/s. Nemichand Electric Stores.

The specifications offered by M/s. Nemichand Electric Stores are not in accordance with the departmental specifications and therefore their quotations have not been considered though low.

Orders sanctioning the purchase of No. 6 B&S and No. 10 B&S copper wire as noted below :

contd.....2.

PURCHASE OF COPPER WIRE REQUIRED FOR SHARAVATHY WORKS.

PROJECT. NO. 6 B&S AND NO. 10 B&S.

Consequent on the formation of Electrical Sub Division under the Mechanical Division, it was reported by the Executive Engineer, Mechanical Division that certain primary materials like copper wire, flood lights etc., were necessary for the satisfactory maintenance of the Electrical Works in the Project area. The Executive Engineer, Stores Division (Procurement Officer) called for quotations for the supply of Electrolytic hard drawn copper wire No. 6 B&S and No. 10 B&S in addition to other electrical materials. In response to this call, 10 quotations were received by the Executive Engineer, of which only two firms noted below quoted ~~have~~ for No. 6 B&S and No. 10 B&S copper wire:

M/s. Hemichand Electrical Co., Bangalore.
M/s. India Electrical Stores, Bangalore.

The quotations offered by M/s. India Electric Stores for the above grades of copper wires were in accordance with the departmental specifications. Their rate however was Rs. 2.75 per lb for No. 6 B&S copper wire as against Rs. 2=70 quoted by M/s. Hemichand Electric Stores. Again the rate for No. 10 B&S copper wire as quoted by M/s. India Electric Stores was Rs. 2.87 Np. per lb as against Rs. 2.75 quoted by M/s. Hemichand Electric Stores.

The specifications offered by M/s. Hemichand electric Stores are not in accordance with the departmental specifications and therefore their quotations have not been considered though low.

Orders sanctioning the purchase of No. 6 B&S and No. 10 B&S copper wire as noted below :

contd.....2.

27)

Sl. No.	Details	Quantity	Rate accepted	Cost.
1.	Electrolytic Hard drawn copper wire B.S. Specification in rolls of 150 lb. to 200 lbs. solid No. 6 B&S.	6,720 Lbs.	2.75 per lb.	18,480/-
2.	-do- -do- No. 10 B&S wire	1,120 lbs.	2.87 per lb.	3,214/-
			Total Rs.	21,694/-

plus Sales Tax at 4% and freight charges.

from M/s. India Electric Stores at a total cost of Rs. 21,694/- plus Sales Tax at 4% freight charges extra has been accorded by Special Chief Engineer, in No. 11209-12 dated 26-8-1959.

As this purchase is beyond the powers of Special Chief Engineer, and otherwise had to be routed through Stores Purchase Committee, ratification to the sanction referred to above in view of urgency is requested.

The cost will be debitable at the first instance to the 'stock' and charged to works on the basis of indents.

(L.C.MUNISWAMY REDDY),
SPECIAL CHIEF ENGINEER,
SHARAVATHI VALLEY PROJECT.

HSS.

Sl. No.	Details	Quantity	Rate accepted	Cost.
1.	Electrolytic Hard drawn copper wire B.S. Specification in rolls of 150 lb. to 200 lbs. solid No. 6 B&S	6,720 lbs.	2.7b per lb.	18,480/-
2.	-do- -do- No. 10 B&S wire	1,120 lbs.	2.87 per lb.	3,214/-
			Total Rs.	21,694/-

plus Sales Tax at 4% and freight charges.

From M/s. India Electric Stores at a total cost of Rs. 21,694/- plus Sales Tax at 4% freight charges extra has been accorded by Special Chief Engineer, in No. 11209-12 dated 26-8-1959.

As this purchase is beyond the powers of Special Chief Engineer, and otherwise had to be routed through Stores Purchase Committee, rectification to the sanction referred to above in view of urgency is requested.

The cost will be debitable at the first instance to the stock and charged to works on the basis of indents.

Yours faithfully,

(P.C.NOMBISWAMY REDDY)
SPECIAL CHIEF ENGINEER,
SHIMOGA VALLEY PROJECT.

Hss.

Mysore Public Works Department. Sharavathy Valley Project, Mardal.

NOTE on the purchase of materials required for operating the Mortar Mills.

-

In Government Order No. PWD 331 ESH 59 dated 26th September 1959, the recommendations of Adhoc Committee for the purchase of the above are approved.

Accordingly orders were placed for the supply with the firms and for furnishing the security deposit equivalent to 5% of the total value of the order.

The following items of purchase have not been complied with by the firmsand are detailed below together with the alternative arrangements for procuring the same.

Item No.1: Bright Polish M.S. Shafting 3" Dia. 12' long - Number required - 90.

The lowest quotation of M/s. Gandhi & Co., Bombay at the rate of Rs.91.34 each was approved. While placing orders with the firm on 17-9-1959, the firm was requested to furnish a deposit of 5% on the total cost of the order to be placed with them. No reply was received from this firm, inspite of frequent reminders. In reply to telegram from the Executive Engineer, Stores Division, the firm has replied in their letter dated 26th October 1959 that they are unable to supply the materials and have requested that their orders be cancelled. They have not furnished any specific reasons for the same. In the meanwhile action was taken by the Executive Engineer for obtaining stock position from the other firms who had quoted for this item.

a) M/s. H.M. Brothers, Madras have intimated telegraphically that they can supply from ready stock (1,100 running foot in random lengths) at Rs.19.25 per running foot or Rs.90/- per Cwt. Ex-godown , Madras.

b) M/s. Thaibey Machinery Stores, Madras have stated that they can supply full requirement in the following categories from their ready stock:

29)

~~i. 22 Nos. M.S. Shafting in 16' lengths.~~
" ~~ii.~~ 45 Nos. Shafting 24' lengths each.

at Rs.17.70 per running foot or Rs.86.60 per Cwt, F.O.R. Talaguppa.

c) In addition M/s. Natwarlal Co., Bombay, who had not previously quoted for this item, have also now offered that they can supply 60 pieces of random lengths (varying from 16'-22') at Rs.90/- per Cwt, F.O.R. Talaguppa.

The Quotation of M/s. Thaibey Machinery Stores, Madras at Rs.17.70 per running foot F.O.R. Talaguppa which is the lowest is therefore recommended. The total cost of purchase on this account will be Rs.19,200/-. ~~as resulting in a saving of Rs.1600/-~~

Item No.2: M.S. Pulleys: 15"x12"x3":-

The lowest quotation of M/s. Thaibey Machinery Stores, Madras was Rs.44/- each and was approved in the Government order. In accordance with this, orders were placed with the above firm for the supply of 100 pulleys and also requesting the firm to furnish a security deposit of 5% on the total value of order. The firm has since replied that the previous quotation of Rs.44/- has been offered by him by mistake and he has now furnished a revised quotation offering Rs.54/- each. The placing of orders with next higher ~~x~~ firm as per previous quotation received was then examined.

M/s. Neo Hindustan Electrical Co., Madras whose quotation was next higher viz., Rs.51.75 each were requested for the supply. No reply has so far been received inspite of severa-l reminders. As calling for fresh quotations would involve loss of time and also due to urgency, it is recommended that the revised quotation of M/s. Thaibey Machinery Stores for the supply of these pulleys at Rs.54/- F.O.R. Madras be approved. The total amount of purchase in respect of this will be about Rs.5,400/-.

Item No.3: M.S. Pulleys 40"x14"x3": The lowest quotation was of M/s. Thaibey Machinery Stores at Rs.90/- each F.O.R. Madras and was approved by the Government. Orders were placed with this firm for the supply and requesting the firm to furnish 5% ~~of~~ Security deposit

on the total cost of supply. In response to the above ~~For reasons stated above~~, the firm has ~~again~~ sent a revised offer of Rs.210/- each F.O.R. Madras as the previous quotation has been noted by mistake. The next higher quotation of Rs.189/- offered by M/s. Mohamed Ali & Co., Bangalore were enquired for supply. The firm has stated that they are not now manufacturing this item and requested for the cancellation of their offer. To avoid further loss of ~~xxx~~ time incidental to calling for fresh quotations and taking decisions etc., the revised offer of M/s. Thaibey Machinery Stores at Rs.210/- each F.O.R. Madras is recommended for the approval of the Committee. The total cost of purchase on this account would be Rs.4,200/- for 20 pulleys required to be purchased.

It is however to be stated that the rate for this item (barring the one of Rs.90/- each stated to have been quoted by mistake) is in the range of Rs.189-430. ~~The Executive Engineer Stores.~~

Approval of the Adhoc Committee for the purchase of the above as per revised proposals is requested.

Special Chief Engineer,
Sharavathy Valley Project.

ms.10/11

81)

URGENT

Govt.of Mysore.

Office of the Special Chief Engineer,
Sharavathi Valley Project,
Camp: Bangalore.
14-11-1959.

No.333-35/PS/S.

To

(1) The Secretary to Govt. of Mysore,
Public Works & Electricity Depts.,
Bangalore.

(2) The Secretary to Govt. of Mysore,
Finance Department,
Bangalore. (or his nominee)

(3) The Secretary,
Stores Purchase Committee,
Bangalore.

Sir,

Sub: Purchase of equipment and machinery for Sharavathi Valley Project -- Meeting of the ad hoc Committee--

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In continuation of this office letter No.318-20/PS/Stores, dated 11-11-1959, I forward herewith a supplemental note on the item 5 (c) "Purchase of materials required for operating mortar mills" of the agenda sent already for the meeting of the ad-hoc Committee to be held on 16th instant at 4.00 p.m. in the Chambers of the Secretary to Govt. of Mysore, P.W.&Elec. Departments, Vidhana Soudha, Bangalore.

Yours faithfully,

(L.C. MUNISWAMY REDDY),
Special Chief Engineer, SVP.

14/11/59

Encl:one.

32)

Supplemental note on item No.5 Other subjects (c) purchase of materials required for operating mortar mills.

The three firms mentioned in the note furnished already had stated that ~~ex~~ they could supply 3" M.S. shafting out of their ready stocks and the rates offered by M/s. ~~Taiy~~ Taiyeby Machinery Stores, Madras, was the lowest.

It was thought desirable to verify the materials and stock position with regard to the above, before placing orders with the firm and hence the Executive Engineer, Stores Division, had been deputed to Madras for obtaining first-hand information. The Executive Engineer has since returned from Madras and has furnished the following further information.

(1) The firm, M/s. H.M. Bros., has intimated telegraphically that they can supply from their ready stocks at Rs.19.25 per Rft. ex godown, Madras. On further enquiry at their office at Madras, they have stated that they can supply the materials by goods train at Rs.19.50 per Rft. F.O.R. Talaguppa. The materials are reported to be available in ready stocks in random lengths, verying from 18 to 22 ft. The shafts are of Japan make.

(2) M/s. Taiyeby Machinery Stores had previously stated that ~~they~~ they could supply 3" shaftings at Rs.17.70 per Rft. F.O.R. Talaguppa. They were telegraphically requested by the Executive Engineer, Stores Division, to reserve the whole stock for our requirements.

In reply the firm has immediately wired that the rates quoted as Rs.17.70 per Rft. was a typographical error and it should be read as Rs.19.70 per Rft. F.O.R. Talaguppa. This will entail an increase of Rs.2160/- over what they had quoted earlier. This firm is also reported to have the materials in ready stocks on hand. They have now offered, on negotiation, to supply the materials at Rs.19.50 per Rft. delivery at our Stores at Kargal by their lorries within 10 to 15 days after placing of firm orders. This rate, namely, Rs.19.50 per Rft., is more favourable when compared to the rate of M/s. Gandhi & Co. whose tender has been accepted, inasmuch as the latter works out to Rs.19.57 per Rft. for F.O.R. Bombay, against Rs.19.50 per Rft. now fixed up with M/s. Taiyeby Machinery Stores.

As their rate is more favourable in view of having the material delivered at our Stores at Kargal and the lengths of the shaftings being suitable to our requirements, than that of M/s. H.M. Bros. whose rate is for F.O.R. Talaguppa, in random lengths of 18 to 22 feet, which will result in unnecessary wastage, the offer of M/s. Taiyeby Machinery Stores for 3" Shafting at Rs.19.50 per Rft., delivery at our Stores at Kargal, is recommended for approval.

$4\frac{2}{3} \times 19.50$

76.00
12.70
2.33
91.03 THGP.

(L.C. MUNISWAMY REDDY),
Special Chief Engineer, S.V.P.

supplementary mode of item No.3. Other enquiries
(c) pronounce of materials required for operating
mortar mills.

The three firms mentioned in the note furnished already the
stated that they could supply 5" B.S. sheeting out of their
ready stocks and the rates offered by M/s. Hardy Pairman & Lanoline
stores, madras, was the lowest.

It was thought desirable to verify the materials and enquire
position with regard to the above, before placing orders with the
firm and hence the Executive Engineer, Stores Division, has been
deputed to Madras for obtaining first-hand information. The said
executive Engineer has since returned from Madras and has furnished
the following further information.

(1) The firm, M/s. M.M. Bros., has intimated telegraphically
that they can supply from their ready stocks at Rs.1.37
per kft. ex-godown, Madras. On further enquiry at their
office at Madras, they have stated that they can supply
the materials by goods train at Rs.1.50 per kft. F.O.R.
Kalagumpe. The materials are reported to be available
ready stocks in random lengths, varying from 18 to 22 ft
The sheets are of 5mm make.

(2) M/s. Hariyaly Machinery Stores has previously stated that
they could supply 3" sheetings at Rs.17.70 per kft. F.O.R.
Kalagumpe. They were telegraphically requested by the
Executive Engineer, Stores Division, to reserve the whol
stock for our requirements.

In reply the firm has immediately wired that the rates
quoted as Rs.17.70 per kft. was a typographical error &
it should be read as Rs.19.70 per kft. F.O.R. Kalagumpe.
This will entail an increase of Rs.2100/- over what they
had quoted earlier. This firm is also reported to have
the materials in ready stocks on hand. They have now
offered, on negotiation, to supply the materials at
Rs.19.50 per kft. delivery at our Stores at Kengal by
their lorries within 10 to 15 days after placing of
firm order. This rate, namely, Rs.19.50 per kft., is
the lowest amongst those enquired to the rate of M/s. Gandhi
& Co. whose tender was accepted, inspection as the
latter works out to Rs.19.87 per kft. for F.O.R. Bombay,
against Rs.19.50 per kft. Now fixed up with M/s. Hariyaly
Machinery Stores.

A point note is more favourable in view of having the motor
driveres at our Stores at Kengal and the loading of the materials
being suitable to our requirements, this rate of M/s. M.M. Bros.
close note is for F.O.R. Kalagumpe, in Mysore Iron Ore & Steel
Ltd., Kalagumpe Works in Bhadravathi & stage, the offer of
M/s. Hariyaly Machinery Stores for Rs.19.50 per kft
delivery at our Stores at Kengal, is recommended for approval.

(C. [illegible])
Deputy Chief Engineer, C.V.C.

33)

Minutes of the meeting of the Ad hoc Committee sanctioned in G.O.No. 85 SH 57 dt 16.1.57 for the purchase of machinery.

Present.-

1. Shri.D.K.Srinivasachar, I.A.S.
   Secretary to Govt., P.W.D. & Elec.Dept.
   (Chairman
2. Shri.R.A.Naik, I.A.S.
   Dy. Secy. to Govt., Finance Dept.
3. Shri.V.V.Navalgund, M.A.,LL.B.
   Secretary, S.P.C.
4. Shri.L.C.Muniswamy Reddy., B.A.,B.E.
   Special Chief Engineer, S.V.P.

Before considering the subjects put up for the meeting there was a discussion on the ~~subject~~ question whether it would be necessary for the Ad hoc committee to continue to function in future in view of the fact, firstly, that departmental work is no longer being resorted to in the S.V.P., and secondly, the ~~special~~ procedure in the case of S.P.C. has been considerably modified. It was felt after discussion that it would not be necessary for the ad hoc Committee to consider such subjects any longer and that they might as well be referred to the S.P.C. Action will be taken accordingly in future.

ES 3105
17/11/59
Appd - issue copies to all concerned & put up file of S.O. & Concurrence of FD & appl. plan.
F(6)/41

17/11

(1) Purchase of Earth-moving Equipment (Crawler Tractor with attachments)

The quotations of Messrs. Standar Machinery Co. Grieves Cotton, William Jacks as also the quotation of Messrs. Larson & ~~Tubrou~~ Toubro for ~~D8~~ D4 Caterpillar Tractor having been considered because in the first ~~two~~ three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much higher than that required, the remaining quotations are those of Messrs. Voltas Ltd. and one of Messrs. Larson & Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs 2,05,840 including the cost of acdessories. This price is F.O.R. Madras, ~~and has~~

~~been recommended by the S.P.C.E.~~ It is however found that the transport charges from Madras to Talguppa will be about Rs 4000. This raises the quotation of Messrs. Voltas Ltd. to about Rs 2,09,850/- During the discussions, the Sp.C.E. considered that the equipment offered by Messrs. Larson & Toubro for D8 Crawler would be preferable as it is equipped with oil type steering clutch and life-time lubrication for rollers. Since the quotations were taken into consideration by ~~the C.E.~~ Messrs. Larson & Toubro are prepared to reduce their quotation by Rs 5000/-. In view of the preference expressed by the Sp.C.E. the Committee considered whether Messrs. Larson & Toubro may not be asked to reduce their quotation further so as to be about equal to Messrs. Voltas. On enquiry by the Sp.C.E. it was disclosed that Messrs. Larson & Toubro would be prepared to reduce their price further so as to be equal to the lowest quotation, namely, that of Messrs. Voltas Ltd. It is accordingly decided that the D8 Crawler Tractor offered by Messrs. Larson & Toubro be purchased at a price equal to that offered by Messrs. Voltas for their equipment plus transport charges from Madras to Talguppa.

(2) Purchase of water supply materials.

(1) G.I.pipes with collars.

The proposal of the Sp.C.E. are agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.C.Sundararajan & Co. will work out to almost the same as that of the lowest, namely, M/S Tube Tools and Hardware Market Co. if the transport charges and loading and unloading charges involved in the offer ~~offer~~ F.O.R.Talguppa

are taken into consideration, as Messrs. Sundararajan and Co. are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that the quotation of Messrs. Sundararajan & Co. for 2" piped (12,200 r.ft.) may be accepted.

In regard to other items, the Sp.C.E's recommendation are agreed to. It is noted that in the case of G.M.Gland cocks, wheel valves and S.W.Big cocks, the quotations other than the lowest have been recommended for the reason that the firm with which the orders are proposed to be placed are the sole agents.

(3) Purchase of Electric Motors.

30 H.P. motors - Sp.C.E's recommendation approved.

75 H.P.motors.

It is stated that the motor is required immediately to operate the compressor and that on this ground the lowest offer of Rs 9500 with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs. Tropical Engineering Co. for Rs 9600/- be accepted subject to the firm giving the necessary earnest money deposit before orders are placed. If however, the Sp.C.E. finds that ~~xxxx~~ Messrs. Tropical Engineering Co. do not agree to supply within the next one ~~or two~~ months, orders may be placed with Messrs. Goldsmith, & Sons & Co. as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

(4) Blue printing machine

The only quotation received, namely that of Messrs. Easen Engineering Col.,Ltd.,Madras may be accepted subject to the terms and conditions mentioned in the note of the Sp.C.E.

(5) Purchase of copper wire 6 B/S and 10 B/S

The purchase is stated to have been made already. Necessary ratification or sanction will have to be obtained from Government separately. The Ad hoc Committee need not consider this.

(6) * Purchase of materials for operating the Mortar Mills.

M.S.Shafting 3" Dia. 12' long - No.required 90.

It is stated that the firm with which orders were placed at Rs. 91.34 F.O.R. Bombay pleads inability to make the supply. M/s.Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs. 19.50 per running foot (although they had quoted Rs. 17.70 per running foot a little earlier) which works out to a little over Rs.91/- per CWT. which is somewhat less than the quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this Firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have ~~otherwise~~ namely thought of calling for fresh tenders.

It is noted that M/s. Natwarlalx & Co., who had not previously quoted have now made an offer at Rs. 90/- per CWT., F.O.R. Talaguppa. Since this firm had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talaguppa their quotation is not taken into consideration.

(7) Pulleys: 15" and 40" Dia.

In this case also, M/s. Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee earlier, have

38)

backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/- for 15" Dia. Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised price of Rs.54/- has to be accepted as no earnest deposit was recovered from the Contractor and that no penalty can be levied and no contract had also been concluded. The proposal of the Special C.E. to place orders with this firm for 15" Pulley at the revised price of Rs. 54/- is therefore agreed to only for the number immediately required by the Special C.E. (stated to be 50).

As regards 40" Pulleys, it is felt that the revised offer of M/s. Thaibey Machinery Stores need not be considered and that in view of the failure of the Company making the next higher offer of Rs.189/- to make the supply the offer of M/s. Calcutta Corporation at the same rate of Rs. 210/- may be accepted and orders placed with them, instead of with M/s. Thaibey Machinery Store.

39)

GOVERNMENT OF MYSORE.

MYSORE GOVERNMENT SECRETARIAT,

No.PWD 394 ESH 59 Dated Bangalore the 19th November 1959.
Kartika 28 Saka Era 1881.

From

The Under Secretary to the Government of Mysore,
Electrical Department.

To

1. The Secretary to Govt. P.W. and Electrical Dept.
2. The Deputy Secretary to Govt. Finance Dept.
3. The Secretary, Stores Purchase Committee
4 The Special Chief Engineer S.V.P. Kargal.

Sir,

Subject: Minutes of the Ad hoc Committee for the purchase of Machinery for Sharavathi Valley Project held on 16-11-1959.

I am directed to forward herewith a copy of the minutes of the Ad hoc Committee meeting held on the 16th November 1959 in the chambers of the Secretary to Government, Public Works and Electrical Department for your information.

Yours faithfully,

19/11/59

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.5)

Minutes of the meeting of the Ad hoc Committee sanctioned in G.O.No.85 SMI 57, dated the 16th January 1958 for the purchase of machinery.

——:O:——

Present:

1. Shri D.K.Srinivasachar, I.A.S.,
   Secretary to Government, P.W.D. and Electrical Department (Chairman)

2. Shri T.A.Naik, I.A.S.,
   Deputy Secretary to Government, Finance Department.

3. Shri V.S.Navalgund, B.A., LL.B.,
   Secretary, Stores Purchase Committee.

4. Shri L.C.Muniswamy Reddy, B.A., B.E.,
   Special Chief Engineer, Sharavathi Valley Project.

Before considering the subjects put up for the meeting there was a discussion on the question whether it would be necessary for the Ad hoc Committee to continue to function in future in view of the fact, firstly, that departmental work is no longer being resorted to in the Sharavathi Valley Project, and secondly, the procedure in the case of Stores Purchase Committee has been considerably modified. It was felt after discussion that it would not be necessary for the ad hoc Committee to consider such subjects any longer and that they might as well be referred to the Stores Purchase Committee. Action will be taken accordingly in future.

(1) Purchase of Earth moving Equipment (Crawler Tractor with attachment).

The quotations of Messrs.Standard Machinery Co., Grieves Cotton, William Jacks as also the quotation of Messrs Larson and Toubro for D9 Catterpillar Tractor have not been considered because in the first three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much higher than that required. The remaining quotations are those of Messrs. Voltas Ltd., and that of Messrs. Larson and Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs.2,05,840/- including the cost of accessories. This price is F.O.R. Madras. It is however found that the transport charges

(continued)

from Madras to Talgupna will be about Rs.4000/-. This rises the quotation of Messrs. Voltas Ltd., to about Rs.2,09,840/- if delivery F.O.R. Talagupna is taken into account. During the discussions, the Special Chief Engineer considered that the equipment offered by Messrs. Larsen & Toubro for D8 Crawler would be preferable (although earlier recommended the acceptance of the quotation of Messrs. Voltas) as it is equipped with oil type steering clutch and life-time lubrication for rollers. Since the quotations were taken into consideration Messrs. Larsen & Toubro stated to have written to the Special Chief Engineer saying that they are prepared to reduce their quotation by Rs.5000/-. In view of the preference expressed by the Special Chief Engineer the Committee considered whether Messrs. Larsen & Toubro may not be asked to reduce their quotation further so as to be about equal to Messrs. Voltas. On enquiry by the Special Chief Engineer during the meeting, it was disclosed that Messrs. Larsen & Toubro would be prepared to reduce their price further so as to be equal to the lowest quotation, namely, that of Messrs. Voltas Ltd. It is accordingly decided that the D8 Crawler Tractor offered by Messrs. Larsen & Toubro be purchased at a price equal to that offered by Messrs. Voltas for their equipment (F.O.R. Madras) plus transport charges from Madras to Talgupna.

(2) Purchase of Water supply materials.

(1) G.I.pipes with collars.

The proposal of the Special Chief Engineer are agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.G.Sundararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charges and loading and unloading charges involved in the offer F.O.R. Talgupna are taken into consideration, Messrs.

(continued)

Sundararajan and Co., are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that quotation of Messrs. Sundararajan & Co., for 2" pi (12,200 Rft) may be accepted.

In regard to other items, the Special Chief Engineer's recommendation are agreed to. It is noted that in the ca of G.M.Gland cocks, wheel valves and S.W.Big cocks, the quotations other than the lowest have been recommended for the reason that the firm with which the orders are proposed to be placed are the sole agents.

(3) Purchase of Electric Motors.

30 H.P. Motors - Special Chief Engineer's recommendati approved.

75 H.P. motors.

It is stated that the motor is required immediately to operate the compressor and that on this groundthe lowest offer of Rs.9500/- with delivery during February 1960 can be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs. Tropical Engine ring Co., for Rs.9600/- be accepted subject to the fi m giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that Messrs. Tropical Engineering Co., do not agre to supply within the next one month, orders may be placed with Messrs. Goldsm th & Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

(4) Blue printing machine.

The only quotation received, namely that of Messrs. Esen Engineering Co., Ltd., Madras may be accepted subject to the terms and conditions mentioned in the note of the Special Chief Engineer.

(5) Purchase of copper wir 6 BS and 10BS

(ntinued)

The purchase is stated to have been made already. Necessary ratification or sanction will have to be obtained from Government separately. The Ad kmnk hoc Committee need not consider this.

(6) Purchase of materials for operating the Mortar Mills. M.S.Shafting 3" dia.12" long - No. required 90.

It is stated that the firm with which orders were placed at Rs.91.34 F.O.R. Bombay pleads inability to make the supply. Messrs. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier) which works out to a little over Rs.91/- per Cwt and which is somewhat less than the quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this Firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engi fo getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have normally thought of calling for fresh tenders.

It is noted that Messrs. Natwarlal & Co., who had not previously quoted have now made an offer at Rs.90/- per CwT F.O.R. Talaguppa. Since this firm had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talguppa their quotation is not taken into consideration.

(7) Pulleys: 15" and 40" Dia.

In this case also Messrs Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotati approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/- for 15" Dia. Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised pri of

(continued)

of Rs.54/- has to be accepted as no earnest deposit was recovered from the Contractor and that no penalty can be levied and no contract has also been concluded. The proposal of the Special Chief Engineer to place orders with this firm for 15" Pulley at the revised price of Rs.54/- is therefore agreed to only for the number immediately required by the Special Chief Engineer (stated to be 50).

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(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

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VOLTAS LIMITED

BANGALORE-1.

MYSORE GOVERNMENT SE... 12-152 19 NOV 1959 ELECTRICAL BRAN...

CONSTN.EQPT. DEPTT:

2/2, KASTURBA ROAD
TELEPHONES: 6148 & 6149 P. O. BOX No. 125
TELEGRAMS: "VOLTAS"

OUR REFERENCE: CE:720 - File E.93635

YOUR REFERENCE:

Bangalore, 17th November 1959.

The Deputy Minister, Finance
Government of Mysore
Vidhana Soudha
BANGALORE

cc:- Secretary to Govt (P.W.D and Electrical Deptts)
Vidhana Soudha
Bangalore

D.V. Mudaliar-Gopal of Voltas. Are they any papers here? Chy 8/s

Dear Sir,

The Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P. Tender Enquiry No.56-S.V.P. — Crawler Tractor with Attachments - Closed on 22.10.59 u/s (Rec) 18/11/59

W. We refer to our Tender No.CE:407-File E.93635 dated 9.10.59 submitted to the Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P.

2. We have now come to understand that the order against this enquiry will be in all likelihood released on Messrs. Larsen & Toubro Ltd., who have offered Caterpillar Crawler Tractor Model D-8 (Series H) and in this connection we wish to submit to you the following points for your kind consideration before the final orders are released :

SECRETARY TO GOVERNMENT No. T-3 19 NOV 1959 PUBLIC WORKS & ELEC. DEPTT.

(i) We have offered against this enquiry International Harvester Crawler Tractor Model TD25 which is an improved model of International TD-24 Crawler tractor, 3 units of which have been supplied through Stores Purchase Committee, Bangalore to Public Works Department of Government of Mysore

(a) Ambligola Reservoir Division
(b) Vidhana Soudha - Now working at Kunigal Sub-Divn., Tumkur District.
(c) S.V.H.E.P. - No.1 Division, Linganamakki Left Bank

(ii) Prices: We give below a tabulation statement to show you at a glance that our equipment quoted exactly as per your requirement is about Rs.10,000=00 cheaper than that of Messrs. Larsen & Toubro Limited.

TD-25	F.O.R. Madras	D-8 (series H)	F.O.R. Talaguppa
TD-25 Tractor of 7 roller track frame	Rs.1,64,820/-	D-8 (series H) Tractor of 6 roller track frame	Rs.1,73,550/-
+ Front mounted single drum cable control unit	Rs. 7,260/-	+ Front mounted single drum cable control unit	Rs. 7,995=00

VOLTAS

VL : BG: 4/10.000/3X59/BPW.

B/F	Rs.1,72,080		Rs.1,81,545/-
+ Bullgrader (Angledozer)	Rs. 24,300/-	Angledozer	Rs. 21,808/-
+ Direct mounted front pusher plate	Rs. 3,610/-	Pusher plate frame mounted	Rs. 5,610/-
+ Bullgrader pusher block suitable for mounting on Bullgrader	Rs. 2,600/-	Push cup for mounting on the 'C' Frame for which blade must be removed	Rs. 3,388/-
		Accessories:	
The following accessories as required in the tender schedule are included in the above cost of the equipment itself:		Crankcase guard with front pull hook	Rs. 2,272/-
		Half set of street plates	Rs. 1,595/-
		Canopy (tarp)	Rs. 1,300/-
Heavy duty radiator guard, rigid drawbar, hourmeter, fuel gauge, crankcase guard with front pull hook, half set of street plates, rain trap, canopy open type, tools special hand set of [illegible]		Air intake pre-cleaner	Rs. 110/-
Grand Total of the complete equipment exactly as required in the tender schedule	Rs.2,02,590/-	Grand Total of the complete equipment exactly as required in the tender schedule	Rs.2,17,628/-

Our offer is cheaper by Rs.15,369/-

(iii) We have quoted F.O.R. Madras prices and from our past experience we believe that the transport charges from Madras to Talaguppa would be in the region of Rs.5,000/-. Due to various factors involved we have not indicated the exact F.O.R. Talaguppa price and are therefore stated in our tender that the transport charges at actuals will be debited to the consignee.

3. Relative Engine speeds of D-8 (Series H) and TD-25 Tractors:

It is established that the wear and tear of the engine is directly proportional to the piston speed. We give below the comparative figures of piston speeds for the power units used in the above series tractors :

TD-25		D-8 (Series H)
Bore and stroke	5.3/8" x 6"	5.3/4" x 8"
Rated governed speed	1500 R.P.M.	1200 R.P.M. (The rated governed speed of the old series D8 engines was 1200 RPM and the rated RPM at max. torque was 800. The RPM at max. torque of the current series D-8(series H) engines is increased to 900 and we believe that the required speed has been relatively increased. Since we do not have the exact figure for the rated governed speed of the new series D-8(series H) engines we have assumed that of the old series engines).
RPM at Max. torque	1200 RPM	900 RPM
Piston speed in ft./min.	1500	1600

Further the trend in design is for shorter stroke engines.

contd..3

4. Rollers for Track Frame:

The specifications calls for a tractor with 7 roller track frame. Our offer is exactly in line with the specifications. Caterpillar D-8 (series H) Tractor offered is with a 6 roller track frame. For your easy reference we give below the comparative calculations showing the respective ground pressure of the 2 tractors :

	TD-25	D-8 (series H)
Track frame offered	7 roller	6 roller
Track shoe offered	22" width	22" width
Length of ground contact	117.3/4"	114.11/16"
Area of ground contact with 22" shoes	5181 sq.in.	5046 sq.in.
Operating weight (approx.)	45,000 lbs.	46872 lbs.
Ground pressure	8.68 lbs./Sq.in.	9.28 lbs./Sq.in.

The lower the ground pressure exerted by a tractor, floatation is better which is a very important factor when the ground conditions are soft.

It is normal practice to have a 7 roller track frame for a front mounted single drum cable control unit operated Angledozer since the increased length of track frame prevents the tractor becoming nose-heavy whereby the abnormal wear takes place on the front 2 or 3 track rollers of the Tractor. A 6 roller track frame is recommended for a Rear Mounted double drum cable control unit operated Angledozer since the double drum cable control unit weighs more than the single drum cable control unit and compensates to a certain extent the weight of the front mounted Angledozer.

5. Drawbar pulls in lbs. at rated RPM:

TD-25			D-8 (series H)		
Gear	At rated RPM	Speed in mph	Gear	At rated RPM	Speed in
First Lo	46,800	1.5	First gear	44,100	1.5
First Hi	36,500	2.0	Second gear	34,200	1.9
Second Lo	30,300	2.4	Third gear	23,600	2.7
Second Hi	23,000	3.0	Fourth gear	17,450	3.5
Third Lo	16,500	4.1	Fifth gear	12,700	4.6
Third Hi	12,500	5.2	Sixth gear	8,350	6.3
Fourth Lo	10,000	6.0			
Fourth Hi	7,300	7.7			

It can be seen ffom the above that the maximum drawbar pull available with the TD-25 Tractor is more than that of ⅋ D-8(series H) Tractor. The drawbar pulls indicate the capacity of the tractor.

6. Speeds:

8 speeds forward ranging from 1.5 mph to 7.7 mph	6 speeds forward ranging from 1.5 mph to 6.3 mph
8 speeds reverse ranging from 1.5 mph to 7.5 mph	6 speeds reverse

contd..4

The full range of speed permits the TD-25's pull power efficiently applied to the job. Faster travelling is possible with TD-25. The 7.5 mph high speed means quicker return trips and faster work cycles.

7. Steering :

Planet power steering — Conventional steering clutches

International Harvester Engineers are of the opinion that as the drawbar H.P. of the Crawler Tractor exceeds 130, the conventional steering clutches are inadequate i.e. tremendous power loss and would create many problems too expensive in maintenance and repairs. The TD-24 and TD-25 were therefore designed with the exclusive International feature viz. planet power steering, by which not only the tractor can be steered with ease and comfort but one speed up or down can be shifted "On the move and on the load" without touching the main transmission. In place of steering clutches there are 2 speed Planetary transmissions for the TD-25. With this the Operator can run one track faster than the other, thus turning the tractor on the side of the slower track. This gives the TD-25 its exclusive "Power on both tracks while running" which is so very advantageous in both dozer and scraper operation. The Operator can also brake one track to take a pivot turn if desired or apply brakes to stop the tractor. All this is attained by moving finger tip control levers which give the Operator extreme comfort so that longer hours of work without fatigue and increased production can be obtained. Further the ability to change speeds from first to second and vice-versa without touching the main transmission and by a mere flick of the finger tip control levers enable the operator to operate the machine in the best economical speeds to obtain maximum output.

The TD-25 has a single foot brake pedal as against 2 pedals for D-8 (series H). Single brake pedal is a great safety feature and the operator can lock both tracks evenly and stop suddenly without slewing the tractor. The operator of the D-8 (series H) tractor will have to use both feet on 2 different steering pedals.

8. Transmission:

Synchromesh — Constant mesh

The TD-25 synchromesh transmission is equipped with synchronising units which together with the spring clutch booster make it easy to shift while the tractor is on the move. The synchromesh unit has 2 positive locks, one for locking the shifter unit in neutral and the other to hold the drive gear in engagement with no possibility of slipping out of gear.

9. Clutch :

Sintered metal facing clutch — Oil Type Clutch

The oil type clutch used in Caterpillar tractors involves complicated oil pumps, oil filters, oil seals and number of tubes and pipes. Harder for mechanics to diagnose troubles, takes 4 gallons of oil which requires changing and checking requires high overcentre pressure to engage which places very high and thrust load on Crankshaft thrust bearings. This high thrust pressure is required to overcome oil film during engagement and extra parts to be carried in spare; potential source of oil leakage; subject to overheating under certain conditions.

contd..5

The International/~~Cermetallic~~ sintered metal clutch gives better service without these disadvantages. It is readily interchangeable with existing clutch plates, mechanics already know this type of clutch because it is not different in principle. It does not increase crankshaft thrust bearing load. It requires 50% less engagement pressures no potential troubles with oil pumps and oil filters and danger of leaks with leaky oil seals. Runs cool because it acts as a fan and keeps air in circulation in clutch compartment.

10. Starting system:

Direct electric start — Independent starting engine

Caterpillar uses a separate starting engine. Rather complicated clutching system is required to engage this small engine with the main engine. With this type of start, two entirely separate engines must be maintained and overhauled and parts kept in stock for both these engines.

The direct starting of the engine provided only in TD-25 tractor is much simple than the auxiliary engine starting provided in the Caterpillar D-8 (series H) Tractor.

11. Starting and Clutch mechanisms:

The tender schedule calls specifically for independent starting engine and oil type clutch, which can be offered only by one Manufacturer viz. Caterpillar. Our offer of TD-25 tractor does not incorporate the above but at the same time does not prejudice the performance of the tractor. We wish to humbly represent that it is not fair to refer to a particular type of starting and clutch which are the exclusive features of one Manufacturer and base the selection of the equipment entirely on these 2 points.

12. In conclusion we wish to clarify that the technical details pertaining to Caterpillar equipment have been based on the information available with us and therefore are subject to correction.

13. For your ready reference we are enclosing herewith a list of few important users of International Model TD-24 tractors. The list also includes M/s. Indian Refineries to whom we have had the privilege of recently supplying International TD-25 Crawler Tractor, the new version of TD-24 series tractors. In this connection we repeat that Caterpillar Model D-8 (series H) tractor offered against the tender enquiry under reference is a new version recently introduced by Caterpillar in place of Caterpillar D-8 (series F) tractors.

We would request you to kindly take into consideration all the above aspects before arriving at a decision. We sincerely feel that a decision against our offer will not be justified in view of :

(a) The cheaper price tendered by us for the project requirement, without in any way sacrificing efficiency
(b) Ouroffer conforming to the tender specifications barring 2 exclusive features of Caterpillar tractors viz. independent starting engine and oil type clutch.

Yours faithfully,
VOLTAS LIMITED
BY ITS CONSTITUTED ATTORNEY

(K. G. MENON)

/L : BG : 5/5000/8-59/BPW.

IMPORTANT USERS OF INTERNATIONAL TD-25, TD-24 AND TD-18 (NOW TD-20) CRAWLER TRACTORS.

	TD-25	TD-24	TD-18 (TD-20)
1. National Coal Development Corporation.	-	15	-
2. Hindustan Steel Limited	-	13	-
3. Bilai Steel Project.	-	2	-
4. Tata Iron & Steel Co.	-	1	1
5. Tata Hydro-Electric Power Company.	-	-	2(TD20)
6. Kaiser Engineers Overseas Corporation.	-	3	3
7. Chambal Project.	-	57	6
8. Nagarjunasagar Project	-	16	4
9. Bombay P.W.D. (for their Projects Khadakwasla, Purna, Kakrapar and Koyna etc.)	-	30	23
10. Sarda Sagar Project.	-	8	3
11. Bhakra Nangal Project.	-	8	6
12. Hirakud Project.	-	2	13
13. Damodar Valley Corporation.	-	3	4
14. C entral Tractor Organization.	-	30	-
15. Sirsi Dam Project	-	6	-
16. Mysore P.W.D., Kunigal Sub-Division.	-	1	-
17. Ambligola Reservoir Division.	-	1	-
18. No.1 Division, S.V.H.E.P.(Linganamakki)	-	1	-
19. Associated Cement Cos.	-	4	3
20. Hindustan Construction Co.Ltd.,	-	1	-
21. Sindri Fertilizers & Chemicals.	-	1	2
22. Godrej & Boyce	-	2	1
23. Aarey Milk Colony.	-	-	4
24. Central Railway, V.T. Bombay.	-	-	1
25. Mech.Cult.Engg.to Government of Bombay,Poona	-	-	20
26. National Defence Academy	-	-	2
27. Army.	-	-	48
28. Ghataprabha Projec t.	-	-	4
29. Sarda Power C anal Division, Bareilly	-	-	2
30. Tata Loco & Engg.Co.Ltd.	-	-	5
31. Union Land & Building Society, Bombay.	-	-	7
32. P.W.D. Workshop & Works, Madras.	-	-	8
33. Hind Construction Company.	-	-	1
34. P.R. Naik (Mines)	-	4	-
35. Sree Ram Mining.	-	1	-
36. Indian Refineries.	1	-	-

DR.
15.10.59

571

GOVERNMENT OF MYSORE.

MYSORE GOVERNMENT SECRETARIAT,

No.PWD 394 SSH 59
Encl: one Co py.

Dated Bangalore the 19th November 1959.
Kartika 28 Saka Era 1881.

From

The Under Secretary to the Government of Mysore,
Electrical Department.

MYSORE GOVERNMENT SECRETARIAT 12-2-52 13 NOV 1959 ELECTRICAL BRANCH.

To

The Secretary to the Government of Mysore,
Public Works and Electrical Department, Bangalore.

Sir,

Subject: Minutes of the Ad hoc Committee for the purchase of Machinery for Sharavathi Valley Project held on 16-11-1959.

SECRETARIAT TO GOVERNMENT T-13 23 NOV 1959

I am directed to forward herewith a copy of the minutes of the Ad hoc Committee meeting held on the 16th November 1959 in the Chambers of the Secretary to Government, Public Works and Electrical Department for your information.

ES

Yours faithfully,

M. Fasihuddin
(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

A representation has been handed over on behalf of the workers to the effect of the above meeting was convened before

mab.5)

23/11

2) The main file on this subject has been sent to F.E with a draft G.O. On its receipt it will be put up.

24/11

Supdg Engr E

24/11/59

This was considered at a meeting of the ad hoc committee at 2 pms on 24.11.59. The representations of representatives of the CEs

SECRETARY TO GOVERNMENT ES 3168 25/11 PUBLIC WORKS & P.E.

Draft typed for letter to the Sd CE. SE/P are put up for approval.

25/11

Issued 27/11/59

Enclosure 2nd Engg 4

Minutes of the meeting of the Ad hoc Committee sanctioned in G.O.No.85 SHI 57, dated the 16th January 1958 for the purchase of machinery.

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Present:

1. Shri D.K.Srinivasachar, I.A.S.,
   Secretary to Government, P.W.D. and Electrical Department (Chairman)

2. Shri R.A.Naik, I.A.S.,
   Deputy Secretary to Government, Finance Department.

3. Shri V.S.Navalgund, M.A., LL.B.,
   Secretary, Stores Purchase Committee.

4. Shri L.C.Muniswamy Reddy, B.A., B.E.,
   Special Chief Engineer, Sharavathi Valley Project.

Before considering the subjects put up for the meeting there was a discussion on the question whether it would be necessary for the Ad hoc Committee to continue to function in future in view of the fact, firstly, that departmental work is no longer being resorted to in the Sharavathi Valley Project, and secondly, the procedure in the case of Stores Purchase Committee has been considerably modified. It was felt after discussion that it would not be necessary for the ad hoc Committee to consider such subjects any longer and that they might as well be referred to the Stores Purchase Committee. Action will be taken accordingly in future.

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(continued)

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(2) Purchase of Water supply materials.

(1) G.I.pipes with collars.

The proposals of the Special Chief Engineer are agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.C.Sundararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charges and loading and unloading charges involved in the offer F.O.R. Talguppa are taken into consideration, as Messrs.

(continued)

Sundararajan and Co., are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that quotation of Messrs. Sundararajan & Co., for 2" pipes (12,200 Rft) may be accepted.

In regard to other items, the Special Chief Engineer's recommendation are agreed to. It is noted that in the case of G.M.Gland cocks, wheel valves and S.W.Big cocks, the quotations other than the lowest have been recommended for the reason that the firm with which the orders are proposed to be placed are the sole agents.

(3) Purchase of Electric Motors.

30 H.P. Motors - Special Chief Engineer's recommendation approved.

75 H.P. motors.

It is stated that the motor is required immediately to operate the compressor and that on this groundthe lowest offer of Rs.9500/- with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs. Tropical Engineering Co., for Rs.9600/- be accepted subject to the firm giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that Messrs. Tropical Engineering Co., do not agree to supply within the next one month, orders may be placed with Messrs. Goldsmith & Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

(4) Blue printing machine.

The only quotation received, namely that of Messrs. Easen Engineering Co., Ltd., Madras may be accepted subject to the terms and conditions mentioned in the note of the Special Chief Engineer.

(5) Purchase of copper wire 6 BS and 10BS

(continued)

The purchase is stated to have been made already. Necessary ratification or sanction will have to be obtained from Government separately. The Ad hoc Committee need not consider this.

(6) Purchase of materials for operating the Mortar Mills. M.S.Shafting 3" dia.12" long - No. required 90.

It is stated that the firm with which orders were placed at Rs.91.34 F.O.R. Bombay pleads inability to make the supply. Messrs. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier) which works out to a little over Rs.91/- per Cwt and which is somewhat less than the quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this Firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have normally thought of calling for fresh tenders.

It is noted that Messrs. Natwarlal & Co., who had not previously quoted have now made an offer at Rs.90/- per CWT F.O.R. Talaguppa. Since this firm had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talaguppa their quotation is not taken into consideration.

(7) Pulleys: 15" and 40" Dia.

In this case also Messrs Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/- for 15" Dia. Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised price of

(continued)

of Rs.54/- has to be accepted as no earnest deposit was recovered from the Contractor and that no penalty can be levied and no contract has also been concluded. The proposal of the Special Chief Engineer to place orders with this firm for 15" Pulley at the revised price of Rs.54/- is, therefore, agreed to only for the number immediately required by the Special Chief Engineer (stated to be 50).

As regards 40" Pulleys, it is felt that the revised offer of Messrs. Thaibey Machinery Stores need not be considered, and that in view of the failure of the Company making the next higher offer of Rs.189/- to make the supply the offer of Messrs. Calcutta Corporation at the same rate of Rs.210/- may be accepted and orders placed with them, instead of with Messrs. Thaibey Machinery Stores.

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.8)

Immediate

571

GOVERNMENT OF MYSORE

No. PWD 394 ESH 59.

Mysore Government Secretariat,
VIDHANA SOUDHA.
Dated, Bangalore, 25th November 1959.
Margasira 4 Saka Era 1881.

FROM

The Under Secretary to the Government of Mysore,
Electrical Department.

To

The Special Chief Engineer,
Sharavathi Valley Project,
Kargal Post, Shimoga District.

Sir,

Subject: Purchase of Machinery for the Sharavathi Valley Project - Representation of Messrs. Voltas Ltd.

- - -

In forwarding herewith a letter dated the 17th November 1959 along with its enclosures received from Messrs. Voltas Limited on the above subject and to request you kindly to forward your report so as to reach this office by the 2nd December 1959 for being considered at a meeting of the Ad hoc committee to be held on the 5th December 1959 at 2 P.M. The letter with the enclosures may kindly be returned along with your report.

I am also to request you kindly to intimate the other members of the Ad hoc committee regarding the meeting at 2 P.M. on 5th December 59.

Yours faithfully,

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.2)

VOLTAS LIMITED

BANGALORE-1

58)

2/2, KASTURBA ROAD
TELEPHONES: 6148 & 6149 P.O. BOX No. 125
TELEGRAMS: "VOLTAS"

CONSTN.EQPT.DEPT:

OUR REFERENCE: CE:868 - E.93635

YOUR REFERENCE:

MYSORE GOVERNMENT 12556 1 - DEC 1959 ELECTRICAL BRANCH

Bangalore, 1st December 1959.

SECRETARIAT TO GOVERNMENT No. 1...31... - 1 DEC 1959 PUBLIC WORKS & ELEC. DEPTT.

The Secretary,
Public Works and Electricity
Government of Mysore
Vidhana Soudha
BANGALORE

Dear Sir,

Tender No.56-S.V.P. - for Supply of Crawler Tractor with Attachments - The Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P. - Closed on 22.10.1959.

We refer to our letter CE:720-E.93635 dated 17.11.59 furnishing a comparison, on price basis and few basic technical details, of Caterpillar D-8 (Series H) Tractor offered by Messrs. Larsen and Toubro and International TD-25 Tractor offered by us.

2. One page 3, under item 5, we had compared the Drawbar pulls at rated RPM of the two tractors. We now wish to correct the drawbar pull figures, mentioned by us, for Caterpillar D-8 tractor, as per the latest information available with us, as follows :-

TD-25			D-8 (Series H)		
Gear	Drawbar pull at rated RPM	Speed in m.p.h.	Gear	Drawbar pull at rated RPM	Speed in m.p.h.
1st Lo	46,800	1.5	1st	44,400	1.5
1st Hi	36,500	2.0	2nd	34,500	1.9
2nd Lo	30,300	2.4	3rd	24,100	2.7
2nd Hi	23,000	3.0	4th	17,750	3.5
3rd Lo	16,500	4.1	5th	13,000	4.6
3rd Hi	12,500	5.2	6th	8,450	6.3
4th Lo	10,000	6.0			
4th Hi	7,300	7.7			

3. It will still be seen, from the above, that in the first gear of speed of 1.5 m.p.h., TD-25 has 2,400 lbs. drawbar pull more than D-8. In 2nd gear also, TD-25 has 36,500 lbs. pull at a speed of 2 m.p.h. as against only 34,500 lbs. at a speed of 1.9 m.p.h., in case of D-8. Hence the output of TD-25 Tractor will be more than D-8.

4. We also wish to point out that Caterpillar D-8 (Series H) Tractor develops 235 H.P. and gives 185 H.P. at the drawbar. International TD-25 Tractor develops 230 H.P. but gives the same drawbar H.P. of 185.

contd..2

VOLTAS

This represents that the loss of engine power in D-8 is more than in case of TD-25.

5. It will be seen from our letter of 17.11.59 that the total price tendered by us for the complete unit is approximately Rs.10,000=00 cheaper than that tendered by Messrs. Larsen & Toubro, reckoning about Rs.5,000=00 towards transport charges of TD-25 tractor from Madras to Talaguppa.

6. We now understand that subsequent to the public opening of tenders against this enquiry, Messrs. Larsen & Toubro have come forward with an offer of price reduction to the extent of Rs.5,000=00 at the first instance and further, if necessary, to bring down the price tendered by them already, to that tendered by us.

7. In this connection, we humbly wish to represent that we had tendered our lowest at the outset, and should now the price reduction offered by Messrs. Larsen & Toubro subsequent to the tender opening, is accepted, we consider that sanctity of inviting Public tender is desecrated.

8. We request you, once again, to kindly take into consideration all the aspects, before arriving at a decision on this tender.

Thanking you and assuring you of our best attention at all times, we remain,

Yours faithfully,
VOLTAS LIMITED
By Its Constituted Attorney

This subject is proposed to be discussed by the Ad hoc Committee at 2 PM on 5/12/59. The opinion of the Spl. Offr. SVP are awaited.

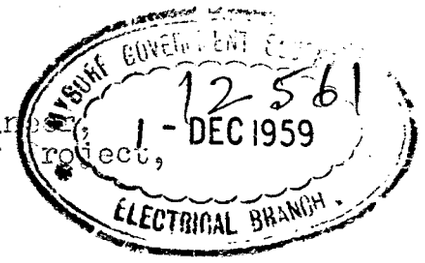
2/12

VL : BG : 5/5000/8-59/BPW

No. S/1391
Encl - 3 S.H.

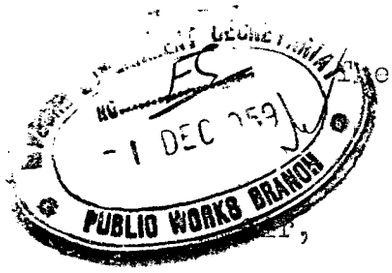
Office of the Special Chief Engineer,
Sharavathy Valley Project,
Kargal, dated 28 November 1959.

From:



The Special Chief Engineer,
Sharavathy Valley Project,
Kargal.

To



The Secretary to the Government of Mysore,
Public Works and Electricity Departments,
Bangalore.

Sir,

D.S.
20/11/59.

Subject:- Minutes of the Adhoc Committee for the purchase of machinery for Sharavathy Valley Project held on 16-11-1959.

Reference:- Your letter No. NW 394 PSH 59 dated 19-11-1959.

I write to state that it was decided at the meeting that it would not be necessary ~~to consider~~ for the Adhoc Committee to consider such subjects any longer and that they might as well be referred to the Stores Purchase Committee.

In this connection, I have to state that action has been taken by the Executive Engineer, Stores Division to invite tenders for the procurement of materials as per enclosed list and notifications have already been published in the Gazette dated 19-11-1959. These are materials urgently required for the works in progress.

As action has already been taken in these cases to facilitate quick purchases, I propose that one more meeting of the Adhoc Committee may be held to consider the tenders received in respoonse to the notifications released; further requisitions for materials being sent to the Secretary, Stores Purchase Committee. for action.

If further meetings cannot be held as per decision, I request that approval of Government may please be communicated to forward to the Secretary, Stores Purchase Committee all the tenders and quotations received in response to the notifications with the recommendation of this office for taking needful action and to place orders for the same.

I request immediate action in the matter as the tenders to be received have to be disposed on receipt.

Yours faithfully,

(L.C. Muniswamy Reddy)
Special Chief Engineer,
Sharavathy Valley Project.

26/11/59

25-D/2-561/EE.

26.11

ms.26/11

The main file on the subject has been sent with a draft C/D. It has not yet been received.

2/12 This may be considered at the meeting of the Adhoc Committee to be held on 5th December 59 at 2 p.m.

Secy. (PWD&E)

2/12/59

Mysore Public Works Department. 69)

Sharavathy Valley Project, Kargal.

Statement showing the Notification sent for Publication in Mysore Gazette.

Sl. No.	Particulars.	Date on which the notification was sent.	Last date for receipt of tenders.	Earnest money asked.	Remarks.
1.	Enquiry No. 69 - Inflators Grindors and battery chargers	16-10-1959	10-11-1959	Rs. 500/-	Quotations have already been received.
2.	Enquiry No. 70 - Metering equipment Kilowatt hour meters etc.,	6-11-1959	20-11-1959	Rs. 500/-	
3.	Enquiry No. 80 - Tungston Carbide tipped steel rods.	6-11-1959	27-11-1959	Rs. 2,500/-	
4.	Enquiry No. 81 - High Head pump set.	10-11-1959	7-12-1959	Rs.500/-	
5.	Copper wire B & S.	12-11-1959	10-12-1959	Rs.500/-	

Special Chief Engineer,
Sharavathy Valley Project.

Rs.26/11

64)

Mysore Public Works Department. Sharavathy Valley Project, Kargal.

Statement showing the Notification sent for Publications in Mysore Gazette.

Sl. No	Particulars.	Date on which the notification was sent.	Last date for receipt of tenders.	Earnest money asked.	Remarks.
1.	Enquiry No. 69 - Inflators Grinders and battery chargers .	16-10-1959	10-11-1959	Rs. 500/-	Quotations have already been received.
2.	Enquiry No. 70 - Metering equipment Kilowatt hour meters etc.,	6-11-1959	20-11-1959	Rs. 500/-	
3.	Enquiry No. 80 - Tungston Carbide tipped steel rods.	6-11-1959	27-11-1959	Rs. 2,500/-	
4.	Enquiry No. 81 - High Head pump set.	10-11-1959	7-12-1959	Rs.500/-	
5.	Copper wire B & S.	12-11-1959	10-12-1959	Rs.500/-	

Special Chief Engineer,
Sharavathy Valley Project.

26.11

ms.26/11

Immediate"

PWD 394 ESH 59 (Supply) 65

MYSORE PUBLIC WORKS DEPARTMENT.

No.S/1412 /Stores.
Encl: Notes - 7 sheets
Representation of M/s. Voltas Ltd in original.

Office of the Special Chief Engineer,
Sharavathy Valley Project,
Kargal, dated the 1st ~~November~~ Dec 1959.

From:

The Special Chief Engineer,
Sharavathy Valley Project,
Kargal.

To

The Secretary to the Government of Mysore,
Public Works and Electricity Departments,
Bangalore.

Sir,

Subject:- Purchase of Machinery for the Sharavathy Valley Project - Representation of M/s. Voltas Ltd.,

Reference:- Your letter No. PWD 394 ESH 59 dated 25-11-1959.

--

I am herewith forwarding a report on the above subject for the meeting of the Ad-hoc Committee proposed to be held on 5th December 1959 to discuss the representation from M/s. Voltas Ltd., and other subjects if any.

The representation in original together with all its enclosures is enclosed.

Yours faithfully,

30/11/59

(L.C. Muniswamy Reddy)
Special Chief Engineer,
Sharavathy Valley Project.

All have been intimated of the meeting at 2 PM on 5/12/59.

ms.30/11

MYSORE PUBLIC WORKS DEPARTMENT. SHARAVATHI VALLEY PROJECT, K A R G A L.

Purchase of machinery for Sharavathi Valley Project, -- Representation of Messrs. Voltas, Ltd., letter No. PWD 394 ESH 59 dated 25-11-59 from the Under Secretary to the Government of Mysore, Public Works & Electricity Department, Bangalore.

The quotations for the supply of Crawler Tractors received from Messrs. Voltas Ltd., and Messrs. Larsen and Toubro Ltd., were examined at the meeting of the Adhoc-Committee held on 16-11-59 and it was decided that the D-8 Crawler Tracter offered by Messrs. Larsen & Toubro, be purchased at a price equal to that offered by Messrs. Voltas Ltd., for their equipment (F.O.R.Madras) plus transport charges from Madras to Talaguppa.

Messrs. Larsen and Toubro Ltd., have been addressed to forward their confirmation agreeing to the above decision taken by the Adhoc-Committee.

The representation of Messrs. Voltas Ltd., is examined, A statement showing the comparative study of the two tractors D-8 and TD-25 is enclosed.

After considering all aspects (as stated under remarks column in the state), it has to be stated that it is preferable to purchase D-8 tractor, offered by Larsen & Toubro Ltd., in view of the following reasons:-

COST:-

i) There will be no difference in cost, as the Larsen & Toubro Ltd., are agreeable to reduce their price to that of Messrs. Voltas Ltd.

ECONOMICAL PERFORMANCE:-

ii) The performance of the tractors both TD-24 and D-8 working in the Project, goes to show that D-8, Tractors are giving a lesser

ECONOMICAL PERFORMANCE:-

ii) The performance of the tractors both TD-24 and D-8 working in the project, goes to show that D-8, Tractors are giving a lesser fuel oil consumption per hour than the TD-24 model (D-8: 4.57 gals. average per hour against TD-24: 5.80 gals. average per hour). This is revealed in the abstract of the comparative performance of D8 -- TD - 24 with(details each) based on the log books maintained in the project.

In this connection an extract of the estimate Committee of the House of People regarding the standardisation of tractors by Central Tractor Organisation (published in the Hindu dated 15th May 1954) is quoted for reference.

> "From operational experience, the Central Tractors Organisation found the Caterpillars to be most efficient and economical of the four different makes in use, (Oliver FDE, Allis Chalmers HD-19, Caterpillar D-8, International Harvesters TD-24) the International Harvestors coming next. Accordingly, orders for 30 more caterpillars were placed."

The performance of caterpillars as observed in this Project is further endorsed by the Expert Committee Opinion and is in favour of the caterpillar only.

Another point in additional favour of D-8 is that with the acceptance of Larsen & Toubro for supply of their equipment at reduced price equivalent to that of TD-25 (supplied by Voltas) a better equipment at a considerably reduced price will have been acquired.

(L.C.Munisamy Reddy)
Special Chief Engineer,
Sharavathi Valley Project.

MYSORE PUBLIC WORKS DEPARTMENT

A Comparative Study Of The Crawler Tractors Offered By

Departmental Specifications.	TD-25 Offered by M/s. Voltas Ltd.,
	2
1) Diesel Model Tractor, 78" Gauge With Troller Track Frame.	TD-25 - International Crawler Tracto with 80" Gauge and Troller Track Frame.
2) Draw Bar HP about 200.	185
3) An Independant Two Cylinder 4 Cycle Gasoline Starting Engine, with Electric Starter including a 6 Volt 40 Amps Generator for starting the Engine Etc.	In-built Gasoline Electric Starting System, 24 Volts - 15 Amps Generator
4) Oil type fly wheel clutch - oil type steering clutches, brakes etc.	2 Plate - Hand operated with long life sintered metal facings.
5) Blade Length : 13' - 6"	13' - 11½"

Additional Advantages provided in D-8

i) No difference in cost consequent on the negotiated rates so as to equal t
ii) Regarding the difference in roller track frame and consequent grou less in the case of D-8.
iii) The average of minimum and maximum Drawbar pull in case of D-8 Tractor i
iv) Regarding Speeds TD-25 with 8 Speed forwards and 8 Speed reverse as agai operational purposes has a disadvantage of wearing of Gear wheels due to
v) Steering: Against the Planet Power Steering of TD-25 operational conditions.
vi) Lubrication:- Track Rollers are life lubricated in case of D-8, as agai 500 hours.
vii) Fuel Consumption:- of Caterpillars is definitely less and more economic peoples, on the standardisation of tractors by Central Tractors' Organis Log Book records for the two types of Tractors working in the Project.

SHARAVATHY VALLEY HYDRO ELECTRIC PROJECT

/s. Voltas Ltd., & M/s. Larsen & Toubro Limited.
:—

D-8 Caterpillar Offered by M/s. Larsen & Toubro Ltd.,	R e m a r k s.
3	4
D-8 Caterpillar with 6 Roller Track Frame, 84" Gauge.	As the Track length of the 6 rollers on the new D-8 Tractor now under consideration is longer than that of the 7 rollers on the old D-8's and as this Track length is almost the same as for TD-25, the D-8 is acceptable.
185	Both Tractors have the same D.BHP. Both the firms have quoted for a higher Gauge Tractor, and D-8 is of 84" Gauge, while TD-5, is of 80". Greater the Gauge the better for stability.
Independent two Cylinder, 4 Cycle Gasoline starting Engine, with Electric Starter including 12 Volts - 24 Amps Generator.	D-8 has a separate starting engine which is energised by a 12 Volts Battery and has also a device for manual Cranking to start the Engine. But TD-25 has only an in-built Electric Starting System with a 24 Volts Battery. There is no alternative arrangement when the battery runs down. This is an important point in favour of D-8.
Oil type fly wheel clutch, Oil type steering clutch, and oil type hydraulically boosted Brakes.	The Metallic Plate Clutch offered by M/s. Voltas Ltd., develops heat very quickly and results in frequent wearing out of clutch plates, whereas in D.8, the Clutch plates are immersed in Oil with the result consequent wearing ~~action~~ action is reduced to a minimum and the Tractor can be worked for a longer duration continuously.
15' - 2"	The longer length of the blade offered by the D-8 Tractor enables to cover greater with of Dozing and is also an advantage.

ractor:-

that of M/s. Voltas Ltd.,
pr. etc., the difference is not appreciable as the difference in length is 3"

48775 lbs as against the average of 49400 lbs in case of TD-25 which difference is not very appre-
6 each way in case of D-8 though has an advantage for ciable.
requent operation of Gears.
the oil type steering in D-8 is an advantage, facilitating smoother

t the frequent lubrication in case of TD-25 requiring lubrication once in

, and is endorsed in the report of the Estimates Committee of the house of
ion (Published in Hindu dated May 15, 1954) and also from the study of the

L.C.Muniswamy Reddy,
Special Chief Engineer. SVP

MYSORE PUBLIC WORKS DEPARTMENT. 69) GOVERNMENT OF MYSORE. SHARAVATHI VALLEY HYDEL PROJECT: K A R G A L.

ABSTRACT COMPARATIVE STUDY OF THE FUEL CONSUMPTION OF D-8 AND TD 24 TRACTORS WORKING IN THE PROJECT.

Sl. No.	Place of working.	D-8 TRACTORS. No. of hours worked.	D-8 TRACTORS. Total Consumption of H.S.D.Oil in Galns.	D-8 TRACTORS. Average H.S.D. oil consumption galns/hour.	TD-24 TRACTORS. No. of hours worked.	TD-24 TRACTORS. Total consumption of H.S.D. oil. Glns.	TD-24 TRACTORS. Average H.S.D. Oil consumption galns/hour.	Remarks.
1.	No. 1 Division, Talakalale	2122	9536	4-49				
2.	No. 1 Division, Linganamakki.				2535	14489	5.00	
3.	No. 5 Division, Iduvani.	3477	16050	4.62				
	Average performance	5599	25586	4.57	2535	~~16663~~ 14489	5.00	

REMARKS: The average consumption of fuel oil in D-8, is less, when compared with TD-24, as per the log book records from 1956-57, uptodate.

SPECIAL CHIEF ENGINEER,
SHARAVATHI VALLEY PROJECT.

HSS.

Mysore Public Works Department. 70) Sharavathy Valley Project, Kargal.

PERFORMANCE OF D - 8 TRACTOR WORKING AT NO. I MATERIALS AND CONSTRUCTION DIVISION,

T A L A K A L A L E.

Sl. No.	Years.	No. of hours worked.	Total consumption of HSD. oil.	Lubricants in Gallons.	Average HSD. oil consumption per hour.	Remarks.
			Gals			
1.	1957-58 (September-March)	838	3816	105	4.55	
2.	1958-59 (April - March)	868	3770	145	4.34	
3.	1959-60 (April -October)	416	1950	70	4.68	
	T o t a l:	2122	9536	320	4.52 4.49	Lubrication oil 0.16 Gallons per hour.

Special Chief Engineer,
Sharavathy Valley Project.

ms.30/11

Subject: City Valley Project, Kansas.

PERFORMANCE OF D - 8 TRACTOR MOVING AT MO. I MATERIALS AND CONSTRUCTION DIVISION,

TABULATED.

No.	Years.	No. of hours worked.	Total consumption of H.P. oil.	Lubricants in Gallons.	Average H.P. oil consumption per hour.	Remarks.
1.	1957-58 (September-March)	888	3816	105	4.55	
2.	1958-59 (April - March	888	3770	145	4.34	
3.	1959-60 (April -October)	416	1560	70	4.58	
	T o t a l :	2192	9536	320	4.52	Lubrication oil 0.1% Gallons per hour.

Special Duty Valley Engineer
Chief Valley Authority.

71)

Mysore Public Works Department. Sharavathy Valley Project, Kargal.

PERFORMANCE of TD-24 BULL DOZER, WORKING AT NO. I RIVER BED CONSTRUCTION DIVISION, LINGANAMAKKI.

Sl. No.	Years.	No. of hours worked.	Total HSD. oil consumption. Gals	Libricants.	Average HSD oil consumption per hour.	Remarks.
1	2	3	4	5	6	7
1.	1956-57	415	2063	105	4.94	
2.	1957-58	1303	7350	382	5.65	
3.	1958-59	817	5076	268	6.21	
	T o t a l:	2535	14489	755 / 0.29 Gal/hr.	5.70	

Special Chief Engineer,
Sharavathy Valley Project.

ms.30/11

Mysore Public Works Department.

Subsystem: Valley Project, Kaveri.

PHASE OF CONSTRUCTION: MORKING AT NO. 1 RIVER BED DIVISION, BUTT DOSER, TD-24

LINGANAMAKKI.

Sl. No.	Years.	No. of hours worked.	Total HSD. oil consumption.	Lubricants.	Average HSD oil consumption per hour.	Remarks.
1	2	3	4	5	6	7
1.	1956-57	475	2053	308	5.39	
2.	1957-58	1303	7350	382	5.65	
3.	1958-59	817	5076	258	6.21	
		2595	14489	948	5.58 cals/hr.	

Special Instructions
Valley Project Engineer
Hosford

MYSORE PUBLIC WORKS DEPARTMENT. 72 GOVERNMENT OF MYSORE. SHARAVATHI VALLEY HYDEL PROJECT:KARGAL.

PERFORMANCE OF D-8 TRACTOR (NEW) - WORKING IN NO. 5 DIVISION, IDUVANI.

SL. No.	Year.	No. of hours worked.	Total H.S.D. oil consumption. in Galns.	Lubrications consumed in the year. shell x 100, Romela Shell spirax SAF 20, 30 Shell Donex etc.	Average - H.S.D. oil consumption in Glns/ per hour.	Remarks
1.	1957-58(September-March)	1050	4879	329 Galns.	4.64	
2.	1958-59(April - March)	1467	6687	290 Galns	4.55	
3.	1959-60(April -October)	960	4484	235 Galns	4-67	
	Total for 3 years	3477	16050	854 Galns.	4.62	Lubrication oil 0.24 gal/hour

SPECIAL CHIEF ENGINEER,
SHARAVATHI VALLEY PROJECT.

HSS.

VOLTAS LIMITED

BANGALORE-1.

MYSORE GOVERNMENT SECRETARIAT
12251
23 NOV 1959
ELECTRICAL BRANCH

CONSTN.EQPT: DEPTT:

2/2, KASTURBA ROAD
TELEPHONES: 6148 & 6149 P. O. BOX No. 125
TELEGRAMS: "VOLTAS"

OUR REFERENCE CE:720 - File E.93635

YOUR REFERENCE:

Bangalore, 17th November 1959.

The Honourable Minister for Public
Works and Electricity
Government of Mysore
Vidhana Soudha
BANGALORE

Dear Sir,

The Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P. Tender Enquiry No.56-S.V.P. — Crawler Tractor with Attachments - Closed on 22.10.59

1. We refer to our Tender No.CE:407-File E.93635 dated 9.10.59 submitted to the Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P.

2. We have now come to understand that the order against this enquiry will be in all likelihood released on Messrs. Larsen & Toubro Ltd., who have offered Caterpillar Crawler Tractor Model D-8 (Series H) and in this connection we wish to submit to you the following points for your kind consideration before the final orders are released :

SECRETARIAT TO GOVERNMENT
No. T-18
23 NOV 1959
PUBLIC WORKS & ELEC. DEPTT.

(i) We have offered against this enquiry International Harvester Crawler Tractor Model TD25 which is an improved model of International TD-24 Crawler tractor, 3 units of which have been supplied through Stores Purchase Committee, Bangalore to Public Works Department of Government of Mysore.

(a) Ambligola Reservoir Division
(b) Vidhana Soudha - Now working at Kunigal Sub-Divn., Tumkur District.
(c) S.V.H.E.P. - No.1 Division, Linganamakki Left Bank

(ii) Prices: We give below a tabulation statement to show you at a glance that our equipment quoted exactly as per your requirement is about Rs.10,000=00 cheaper than that of Messrs. Larsen & Toubro Limited.

TD-25	F.O.R. Madras	D-8 (series H)	F.O.R. Talaguppa
TD-25 Tractor of 7 roller track frame	Rs.1,64,820/-	D-8 (series H) Tractor of 6 roller track frame	Rs.1,73,550/-
+ Front mounted single drum cable control unit	Rs. 7,260/-	+ Front mounted single drum cable control unit	Rs. 7,995=00

VOLTAS

VL : BG: 4/10.000/3X59/BPW.

B/F	Rs.1,72,080		Rs.1,81,545/-
+ Bullgrader (Angledozer)	Rs. 24,300/-	Angledozer	Rs. 21,808/-
+ Direct mounted front pusher plate	Rs. 3,610/-	Pusher plate frame mounted	Rs. 5,610/-
+ Bullgrader pusher block suitable for mounting on Bullgrader	Rs. 2,600/-	Push cup for mounting on the 'C' Frame for which blade must be removed	Rs. 3,388/-
		Accessories:	
The following accessories as required in the tender schedule are included in the above cost of the equipment itself:		Crankcase guard with front pull hook	Rs. 2,272/-
		Half set of street plates	Rs. 1,595/-
		Canopy (top)	Rs. 1,300/-
Heavy duty radiator guard, rigid drawbar, hourmeter, fuel gauge, crankcase guard with front pull hook, half set of street plates, rain trap, canopy open type, tools special hand set.		Air intake pre-cleaner	Rs. 110/-
Grand Total of the complete equipment exactly as required in the tender schedule	Rs.2,02,590/-	Grand Total of the complete equipment exactly as required in the tender schedule	Rs.2,17,623/-

Our offer is cheaper by Rs.15,369/-

(iii) We have quoted F.O.R. Madras prices and from our past experience we believe that the transport charges from Madras to Talaguppa would be in the region of Rs.5,000/-. Due to various factors involved we have not indicated the exact F.O.R. Talaguppa price and are therefore stated in our tender that the transport charges at actuals will be debited to the consignee.

3. Relative Engine speeds of D-8 (Series H) and TD-25 Tractors:

It is established that the wear and tear of the engine is directly proportional to the piston speed. We give below the comparative figures of piston speeds for the power units used in the above series tractors :

	TD-25	D-8 (Series H)
Bore and stroke	5.3/8" x 6"	5.3/4" x 8"
Rated governed speed	1500 R.P.M.	1200 R.P.M. (The rated governed speed of the old series D8 engines was 1200 RPM and the rated RPM at max. torque was 800. The RPM at max. torque of the current series D-8(series H) engines is increased to 900 and we believe that the required speed has been relatively increased. Since we do not have the exact figure for the rated governed speed of the new series D-8(series H) engines we have assumed that of the old series engines).
RPM at Max. torque	1200 RPM	900 RPM
Piston speed in ft./min.	1500	1600

Further the trend in design is for shorter stroke engines.

contd..3

4. Rollers for Track Frame:

The specifications calls for a tractor with 7 roller track frame. Our offer is exactly in line with the specifications. Caterpillar D-8 (series H) Tractor offered is with a 6 roller track frame. For your easy reference we give below the comparative calculations showing the respective ground pressure of the 2 tractors :

	TD-25	D-8 (series H)
Track frame offered	7 roller	6 roller
Track shoe offered	22" width	22" width
Length of ground contact	117.3/4"	114.11/16"
Area of ground contact with 22" shoes	5181 sq.in.	5046 sq.in.
Operating weight (approx.)	45,000 lbs.	46872 lbs.
Ground pressure	8.68 lbs./Sq.in.	9.28 lbs./Sq.in.

The lower the ground pressure exerted by a tractor, floatation is better which is a very important factor when the ground conditions are soft.

It is normal practice to have a 7 roller track frame for a front mounted single drum cable control unit operated Angledozer since the increased length of track frame prevents the tractor becoming nose-heavy whereby the abnormal wear takes place on the front 2 or 3 track rollers of the Tractor. A 6 roller track frame is recommended for a Rear Mounted double drum cable control unit operated Angledozer since the double drum cable control unit weighs more than the single drum cable control unit and compensates to a certain extent the weight of the front mounted Angledozer.

5. Drawbar pulls in lbs. at rated RPM:

TD-25			D-8 (series H)		
Gear	At rated RPM	Speed in mph	Gear	At rated RPM	Speed in mph
First Lo	46,800	1.5	First gear	44,100	1.5
First Hi	36,500	2.0	Second gear	34,200	1.9
Second Lo	30,300	2.4	Third gear	23,600	2.7
Second Hi	23,000	3.0	Fourth gear	17,450	3.5
Third Lo	16,500	4.1	Fifth gear	12,700	4.6
Third Hi	12,500	5.2	Sixth gear	8,350	6.3
Fourth Lo	10,000	6.0			
Fourth Hi	7,300	7.7			

It can be seen ffom the above that the maximum drawbar pull available with the TD-25 Tractor is more than that of the D-8(series H) Tractor. The drawbar pulls indicate the capacity of the tractor.

6. Speeds:

8 speeds forward ranging from 1.5 mph to 7.7 mph	6 speeds forward ranging from 1.5 mph to 6.3 mph
8 speeds reverse ranging from 1.5 mph to 7.5 mph	6 speeds reverse

contd..4

The full range of speed permits the TD-25's pull power efficiently applied to the job. Faster travelling is possible with TD-25. The 7.5 mph high speed means qui return trips and faster work cycles.

7. Steering :

Planet power steering — Conventional steering clutches

International Harvester Engineers are of the opinion that as the drawbar H.P. of the Crawler Tractor exceeds 130, the conventional steering clutches are inadequate i.e. tremendous power loss and would create many problems too expensive in maintenance and repairs. The TD-24 and TD-25 were therefore designed with the exclusive International feature viz. planet power steering, by which not only the tractor can be steered with ease and comfort but one speed up or down can be shifted "On the move and on the load" without touching the main transmission. In place of steering clutches there are 2 speed Planetary transmissions for the TD-25. With this the Operator can run one track faster than the other, thus turning the tractor on the side of the slower track. This gives the TD-25 its exclusive "Power on both tracks while running" which is so very advantageous in both dozer and scraper operation. The Operator can also brake one track to take a pivot turn if desired or apply brakes to stop the tractor. All this is attained by moving finger tip control levers which give the Operator extreme comfort so that longer hours of work without fatigue and increased production can be obtained. Further the ability to change speeds from first to second and vice-versa without touching the main transmission and by a mere flick of the finger tip control levers enable the operator to operate the machine in the best economical speeds to obtain maximum output.

The TD-25 has a single foot brake pedal as against 2 pedals for D-8 (series H). Single brake pedal is a great safety feature and the operator can lock both tracks evenly and stop suddenly without slewing the tractor. The operator of the D-8 (series H) tractor will have to use both feet on 2 different steering pedals.

8. Transmission:

Synchromesh — Constant mesh

The TD-25 synchromesh transmission is equipped with synchronising units which together with the spring clutch booster make it easy to shift while the tractor is on the move. The synchromesh unit has 2 positive locks, one for locking the shifter unit in neutral and the other to hold the drive gear in engagement with no possibility of slipping out of gear.

9. Clutch :

Sintered metal facing clutch — Oil Type Clutch

The oil type clutch used in Caterpillar tractors involves complicated oil pumps, oil filters, oil seals and number of tubes and pipes. Harder for mechanics to diagnose troubles, takes 4 gallons of oil which requires changing and checking requires high overcentre pressure to engage which places very high and thrust load on Crankshaft thrust bearings. This high thrust pressure is required to overcome oil film during engagement and extra parts to be carried in spare; potential source of oil leakage; subject to overheating under certain conditions.

contd..5

The International/~~Cermetallic~~ sintered metal clutch gives better service without these disadvantages. It is readily interchangeable with existing clutch plates, mechanics already know this type of clutch because it is not different in principle. It does not increase crankshaft thrust bearing load. It requires 50% less engagement pressures no potential troubles with oil pumps and oil filters and danger of leaks with leaky oil seals. Runs cool because it acts as a fan and keeps air in circulation in clutch compartment.

10. Starting system:

Direct electric start — Independent starting engine

Caterpillar uses a separate starting engine. Rather complicated clutching system is required to engage this small engine with the main engine. With this type of start, two entirely separate engines must be maintained and overhauled and parts kept in stock for both these engines.

The direct starting of the engine provided only in TD-25 tractor is much simple than the auxiliary engine starting provided in the Caterpillar D-8 (series H) Tractor.

11. Starting and Clutch mechanisms:

The tender schedule calls specifically for independent starting engine and oil type clutch, which can be offered only by one Manufacturer viz. Caterpillar. Our offer of TD-25 tractor does not incorporate the above but at the same time does not prejudice the performance of the tractor. We wish to humbly represent that it is not fair to refer to a particular type of starting and clutch which are the exclusive features of one Manufacturer and base the selection of the equipment entirely on these 2 points.

12. In conclusion we wish to clarify that the technical details pertaining to Caterpillar equipment have been based on the information available with us and therefore are subject to correction.

13. For your ready reference we are enclosing herewith a list of few important users of International Model TD-24 tractors. The list also includes M/s. Indian Refineries to whom we have had the privilege of recently supplying International TD-25 Crawler Tractor, the new version of TD-24 series tractors. In this connection we repeat that Caterpillar Model D-8 (series H) tractor offered against the tender enquiry under reference is a new version recently introduced by Caterpillar in place of Caterpillar D-8 (series F) tractors.

. . We would request you to kindly take into consideration all the above aspects before arriving at a decision. We sincerely feel that a decision against our offer will not be justified in view of :

(a) The cheaper price tendered by us for the project requirement, without in any way sacrificing efficiency
(b) Our offer conforming to the tender specifications barring 2 exclusive features of Caterpillar tractors viz. independent starting engine and oil type clutch.

Yours faithfully,
VOLTAS LIMITED
BY ITS CONSTITUTED ATTORNEY

(K. G. MENON)

VL : BG : 5/5000/8-59/BPW.

78/

IMPORTANT USERS OF INTERNATIONAL TD-25, TD-24 AND TD-18 (NOW TD-20) CRAWLER TRACTORS.

	TD-25	TD-24	TD-18 (TD-20)
1. National Coal Development Corporation.	-	15	-
2. Hindustan Steel Limited	-	13	-
3. Bilai Steel Project.	-	2	-
4. Tata Iron & Steel Co.	-	1	1
5. Tata Hydro-Electric Power Company.	-	-	2(TD20)
6. Kaiser Engineers Overseas Corporation.	-	3	3
7. Chambal Project.	-	57	6
8. Nagarjunasagar Project	-	16	4
9. Bombay P.W.D. (for their Projects Khadakwasla, Purna, Kakrapar and Koyna etc.)	-	30	23
10. Sarda Sagar Project.	-	8	3
11. Bhakra Nangal Project.	-	8	6
12. Hirakud Project.	-	2	13
13. Damodar Valley Corporation.	-	3	4
14. Central Tractor Organisation.	-	30	-
15. Sirsi Dam Project	-	6	-
16. Mysore P.W.D., Kunigal Sub-Division.	-	1	-
17. Ambligola Reservoir Division.	-	1	-
18. No.1 Division, S.V.H.E.P.(Linganamakki)	-	1	-
19. Associated Cement Cos.	-	4	3
20. Hindustan Construction Co.Ltd.,	-	1	-
21. Sindri Fertilizers & Chemicals.	-	1	2
22. Godrej & Boyce	-	2	1
23. Aarey Milk Colony.	-	-	4
24. Central Railway, V.T. Bombay.	-	-	1
25. Mech.Cult.Engg.to Government of Bombay,Poona	-	-	20
26. National Defence Academy	-	-	2
27. Army.	-	-	48
28. Ghataprabha Projec t.	-	-	4
29. Sarda Power Canal Division, Bareilly	-	-	2
30. Tata Loco & Engg.Co.Ltd.	-	-	5
31. Union Land & Building Society, Bombay.	-	-	7
32. P.W.D. Workshop & Works, Madras.	-	-	8
33. Hind Construction Company.	-	-	1
34. P.R. Naik (Mines)	-	4	-
35. Cree Ram Mining.	-	1	-
36. Indian Refineries.	1	-	-

DR.
15.10.59

GOVERNMENT ELECTRICITY DEPT.

79)

Date: 14-12-1956

From
The Executive Engineer,
Kundah Hydro-Electric Scheme,
Division No.IV,
Mettupalayam,
Coimbatore Dist.

M/s. Voltas Limited
Constn.Equipment Dept.,
Mount Road,
Madras 2.

Dear Sirs,

Sub: International TD-24 Tractor Serial No. TD.2418837 working in this Division

I acknowledge the receipt of your letter No. 253/Agri. G.O.18676/2 dated 5.12.56

The International TD-24 tractor, Serial No. TD.2418837, with the cable operated bullgrader is in use in this Division from the last week of September. It is being mainly used for formation of new roads in the Kundah Project. The machine is giving very good performance and the operation is found to be economical in that it works out to Rs. 4-8-0 to Rs.5/- for moving one unit of earth as against Rs.20/- to Rs.22/- paid to human labour.

Even though the machine is having constant work, there has been absolutely no trouble.

Because of the special features such as planetary power system, the operator is able to operate the TD-24 safely in steep slopes.

Your service staff who have been deputed to train the departmental staff in the operation and maintenance of the machinery are very cooperative. Already two of our service staff have been well trained in the operation and maintenance of the machine.

Yours faithfully,

Sd/-

E.V. Seshan
Executive Engineer IV,
Mettupalayam
14.12.1956.

80)

ORGANISATION DES NATIONS UNIES POUR
L'ALIMENTATION ET L'AGRICULTURE

ORGANIZACION DE LAS NACIONES UNIDAS
PARA LA AGRICULTURA
Y LA ALIMENTACION

FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS

Viale delle Terme di Caracalla
ROME

Cable Address: FOODAGRI, ROME
Tel. 590011 - 590211 - 599071

Please quote:
Reference
Si vous citez:

26 September 1956

Dear Sir,

International Crawler Tractors Model 'TD/24'

We present for your consideration the following brief appraisal of the International 'TD/24' Crawler Tractors owned by the Gal Oya Development Board, Ceylon.

1. Tractor

   a. Makers - International Harvester Co. Ltd.

   b. Model designation - TD/24

   c. Country of Origin - United States

   d. Acquired - June, 1955

   e. Number on Strength - 10

2. Ancillary equipment

   Rear-mounted power control units and bulldozer groups/ cable operated.

3. Nature of work

   a. Jungle felling by the chain method

   b. Scrub jungle clearing with dozer blades

   c. Levelling

   d. Root ripping

   e. Platform construction

   f. Road building

Mr. Leigh Davis
P.O. Box 538
BOMBAY 1
India.

87)

4. Performance:

a. Power unit - Smooth power produced over ~~field~~ feed range

b. Mechanical breakdown-nil

c. Clutch arrangements -Periodical normal adjustments

d. Track adjustment - Minor difficulties encountered due largely to faulty maintenance techniques.

5. General

These machines have given a creditable performance and those mechanical difficulties so far encountered are avoidable but inevitable where a new class and make of machine is introduced into a field which has been largely dominated by machines of another make. Should the necessity arise in the future of purchasing additional tractors in this power class and type, I would say without hesitation that primary consideration should be given to increasing the strength of the existing fleet of International 'TD/24's'.

Yours faithfully,

C.S.L. Frances
FAO/ETAP Plant and Equipment Manager
Gal Oya Development Board
Amparai, Ceylon.

83)

Office of the Asst. Engineer,
P. W. D.,
Thottapalli Post, Parvatipuram
September 1, 1956.

To

Messrs. Voltas Limited,
150B, Mount Road,
Madras 2.

Dear Sir,

I have been working in the Special ~~Circle~~ Division, P.W.D., Vizianagaram, as Junior Engineer and Assistant Engineer, since May 1954. During my stay at Gambhiram and Thottapalli I could notice that the TD-14A's and the TD-24 tractors are giving very good performance - especially TD-24 tractor has given very good performance for more than 2000 working hours without any major overhaul. The spare parts from the Company have been received as and when required very promptly and the service people also are obliging in attending to repairs regularly.

Yours faithfully

DMDeo 1/9/56

(Sd) D.M. Deo.

Office of the Executive Engineer,
Spl.Dn., Vizianagaram.

86

This Division was supplied with one T.D.24 Crawler Tractor (International) in 1954 to work on the Medium Irrigation Schemes in this Division. This tractor has been working quite satisfactorily on our Projects and no trouble was experienced so far.

I have also to add that Voltas who have supplied T.D.24 and other 14 A s have been very prompt in supplying spare parts and the scarcity of spare parts was never experienced.

Whenever a serviceman was called fromthe Company, the Company kept their serviceman at our disposal readily and I appreciate the services rendered by the Company .

Mahmood Hussain
Executive Engineer, 9.7.56
Spl. Dn.
Vizianagaram.

857

OFFICE OF THE EXECUTIVE ENGINEER
MECHANICAN DIVISION, B&I
DAMODAR VALLEY CORPORATION,
DURGAPUR: BURDWAN

No. BI/Mech/33/2-812 February 8, 1955.

M/s. Voltas Ltd.,
8, Clive Street,
Clive Buildings,
Calcutta-1.

For attention of Major S.V. Rao

Re: Our discussion about the performance of TD-24

Dear Sirs,

We have got three TD-24 Tractors fitted with Dozer equipment and they have been found to do wonderful work in most difficult circumstances. I am fully satisfied with the performance of these machines.

Over and above this stock position of spare parts of your firm is very good and even slow moving spares are supplied ex-stock.

Yours faithfully,

Sd/-
P.K. Banerjee
Executive Engineer,
Mechanical Division, B&I

the machine is uniformly good.

Station:B.T.Project Damsite.
Dated: 9th Aug.'56.

Executive Engineer,
Bhairavanithippa Project Division,
B.T.Project Damsite.

87)

Office of the Executive Engineer,
Bhairavanithippa Project Dn.,
B.T.Project Damsite.

VOLTAS LIMITED 13 FEB 1957
REPLIED | FILE

: C E R T I F I C A T E :
****

THIS is to state that Messrs. Voltas Limited, Madras have supplied to this Project Division one number TD 24 Tractor (Bull-grader with pusher attachment). This was received in 12/55. It was put into commission immediately.

2. This machine has been utilised for pushing the scrapers to enable their getting full bucket loads of earth ranging from black cotton to hard gravelly soils. It is also being used occasionally as a bull-dozer.

3. I am happy to state herein that Messrs.Voltas Limited who are the distributors are regular and pr t in the matter of effecting supplies of spare-parts when-ever indented for. So far, I have had no occassion to keep the machine idle for want of spares.

4. The firm had also spared the free services of their Service Engineer in the matter of training the crew to handle the machine and maintain the unit in the initial stages till they were satisfied that the new operators could confidently handle, maintain and up-keep the machine. The firm had given their full co-operation in the matter of attending to proper up-keep of this machine. On the whole, I could say that the machine has been working trouble-free and the performance of the machine is uniformly good.

Executive Engineer,
Bhairavanithippa Project Division,
B.T.Project Damsite.

Station:B.T.Project Damsite.
Dated: 9th Aug.'56.

38)

GOVERNMENT OF MADRAS
(Public Works Department)

Office of the General Superintendent,
Public Works Workshops and Stores,
Madras-1, Dated 1st June 67.

While Department had an opportunity for the first time perhaps for the whole of South India to use the International Pay Scraper 75. These Scrapers along with TD-24 tractor-pusher have stood their test creditably in the field and have proved that they are in no way inferior to other rival makes.

The few young enthusiastic engineers of Voltas are looking after the units very carefully by way of timely supply of spares, servicing etc.

I am glad I have no complaints against the Scrapers.

1/6/67

(M.B.RAMA REDDY)
General Superintendent,
Public Works Workshops and Stores,
MADRAS-1.

891

Office of the Executive
Bathamur Project Headworks
Bathamur Dtd. 16-12-57.

The International Pay Scrapers 3 Nos. and One [illegible] Nos. [illegible] used in the formation of the Earth Dam from [illegible] to [illegible]. The performance of the above machinery was found quite satisfactory. The service personnel stationed with the machineries have also attended the servicing etc. regularly and maintained the equipment in good condition. No difficulty was experienced in obtaining the necessary spare parts required for the working of the machinery during the period.

K Q [illegible]
16.12.57

Executive Engineer,
Bathamur Project Headworks Division.

T. B. Gopalakrishnan, B.E.,
JUNIOR ENGINEER.

Station [illegible]

Date [illegible]

91

Messrs. Voltas Ltd. have supplied three Scrapers of the Model 75 and a Crawler tractor of the TD 24 type for work in this project. They have worked for a period of about five months. During this period the turnover of the machines have been found to be the maximum. They have proved themselves best in their class even though they were subjected to the maximum extent of tests. They were found to be equally efficient as any other type of Earthmoving machinery if not superior.

The TD 24 Tractor supplied by the same firm has also proved itself to be the best in its class of Tractor and pusher units as compared to the other makes of machines working in this project. The synchromesh system of gears of the machine has been of no immense help in changing the gears on move and further the finger tip control of steering is easy for operation.

M/S. Voltas Ltd. had stationed their servicing staff at the control of the Project and were useful in training up the operators and mechanics and in maintaining the machines properly.

T. B. Gopalakrishnan

92

OFFICE OF THE SUB DIVISIONAL OFFICER

Thirumanur Sub Division,
Pullambadi Canals,
Thirumanur,
Via. Ariyalur.

March 6, 1958.

The INTERNATIONAL PAYCRAFTER 5 ton [illegible] with one [illegible] Pusher Unit have worked in my Sub Division for the last 4 months. Throughout this period I have found that the work was very satisfactory [illegible] have been quite prompt in supplying our spare part requirements. The service man of M/s. Voltas who was stationed here, was very helpful to us in maintaining these machines. These machines are some of the best of their class.

K.S. Ramachandran
6-3-58

K.S. Ramachandran
SUB DIVISIONAL OFFICER

SECRETARIAT GOVERNMENT
No .....
- 5 DEC 1959
PUBLIC WORKS & ELEC. DEPTT.
IMPORT DEPTT.

VOLTAS LIMITED

BANGALORE-1

93)

2/2, KASTURBA ROAD
TELEPHONES: 6148 & 6149 P.O. BOX No. 125
TELEGRAMS: "VOLTAS"

OUR REFERENCE: CE:918 E.93635

YOUR REFERENCE:

Bangalore, 5th December 1959.

The Secretary
Public Works and Electricity
Government of Mysore
Vidhana Soudha
Bangalore

Cc: The Secretary
Stores Purchase Committee
"Asiatic Buildings"
Kempegowda Road
Bangalore

Dear Sir,

Tender No.56-S.V.P - Supply of Crawler Tractor with Attachments - The Executive Engineer, Stores Divn., Talakalale Circle, S.V.H.E.P. -- Closed on 22.10.59

We refer to our previous letters on the above subject :

1) CE:720-E.93635 dated 17th November 1959
2) CE:868-E.93635 dated 1st December 1959

and wish to comment as below on the International Harvester Turbo-charged diesel engine Model DT817 fitted on the International TD-25 Tractor.

This model DT817 engine was developed by Messrs. International Harvester for use with their other earthmoving equipment viz:

1) TD-25 Tractor
2) 295 Payscraper
3) 295 Paywagon
4) 495 Payscraper
5) 495 Paywagon

This was done with the aim of simplifying spare parts and service facilities to a fleet owner of the above combination of equipment.

The DT817 engine is designed to develop 375 H.P. at 2100 R.P.M. when used in the Payscrapers and Paywagons. The same engine which is used on the TD-25 tractor is set to develop only 230 H.P. at 1500 R.P.M. which indicates that the engine has plenty of reserve power and hence cannot be overloaded.

In addition, given below are few of the special features that are incorporated in the DT817 engine :-

(1) High capacity turbo-charger:

Increases engine output at high altitudes and decreases fuel consumption for greater economy.

(2) Positive valve rotators:

Keeps exhaust valve seating and faces free of carbon deposits.

contd..2

(3) Dual exhaust valves:

Permits complete scavanging of exhaust gases.

(4) Dual inlet valves:

Free breathing engine for high volumetric efficiency.

(5) Multiple orifice fuel injectors:

Atomizes fuel under pressures upto 20,000 P.S.I. for exceptional fuel combustion.

(6) Gear driven fan and Gear driven water pump:

Eliminates fan belts and fan belt adjustments, gives positive no-slip fan drive.

We are enclosing herewith an extract of an illustrated article, describing the construction and performance of the DT817 engine, from the February 1959 issue of "Diesel Progress", from which you will note, from the description and the power curves of the turbo-charged DT817 diesel engine, that the fuel consumption is as low as 0.385 lbs. per H.P. hour. To the best of our knowledge, no other comparable diesel engine has fuel consumption less than 0.400 lbs. per H.P. hour.

The TD-24 tractor, which is the old version of the TD-25 tractor, was equipped with International Harvester Diesel Engine Model D 1091 developing 202 net. Engine H.P. and its fuel consumption was 0.460 lbs. per H.P. hour. The DT817 diesel engine is defenitely a high powered but low fuel consumption engine as compared to D 1091.

The low fuel consumption as indicated above together with the other superior features of TD-25 tractor, detailed in our letter of 17th November 1959, viz. drawbar pulls, transmission speeds, planetary power steering, synchromesh transmission, ground pressure etc., clearly show that the TD-25 tractor will be a more economical one.

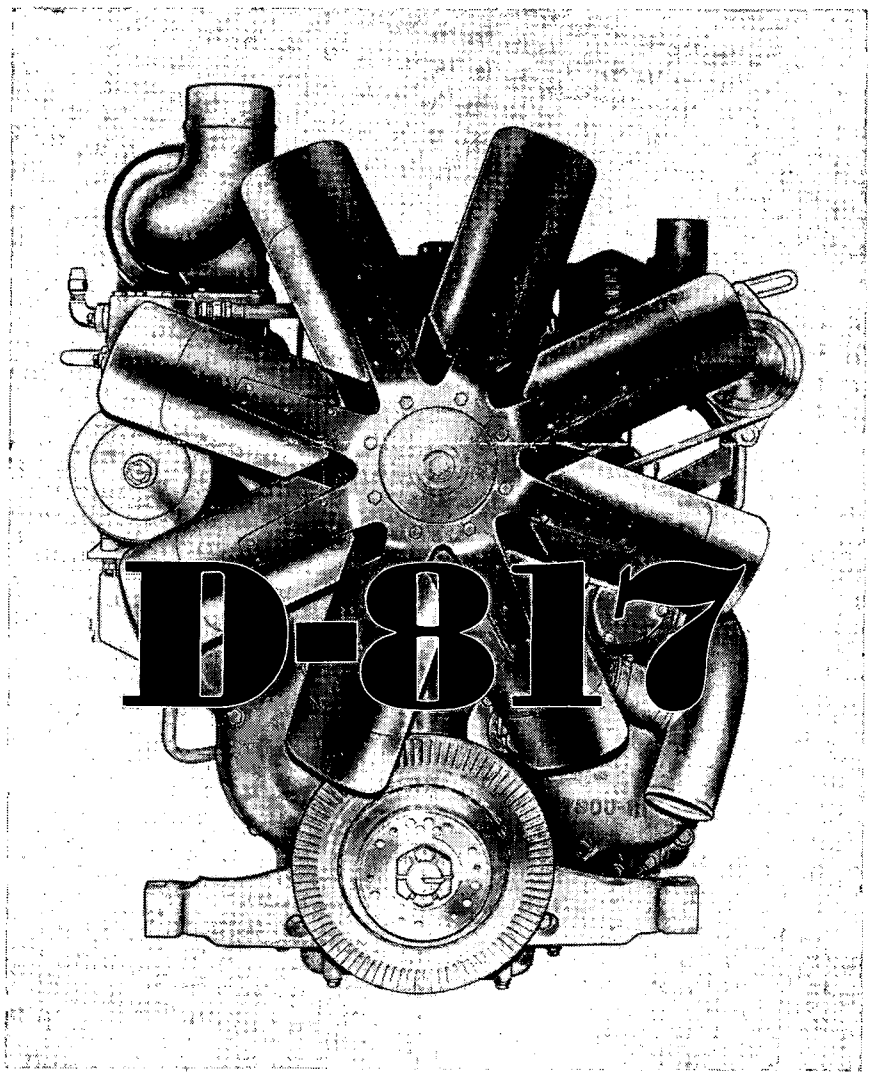
We sincerely hope that all the points raised by us in our letters on the above tender would be given due consideration by your goodselves before arriving at a decision.

Thanking you and assuring you of our best attention at all times, we remain,

Yours faithfully,
VOLTAS LIMITED
By Its Constituted Attorney

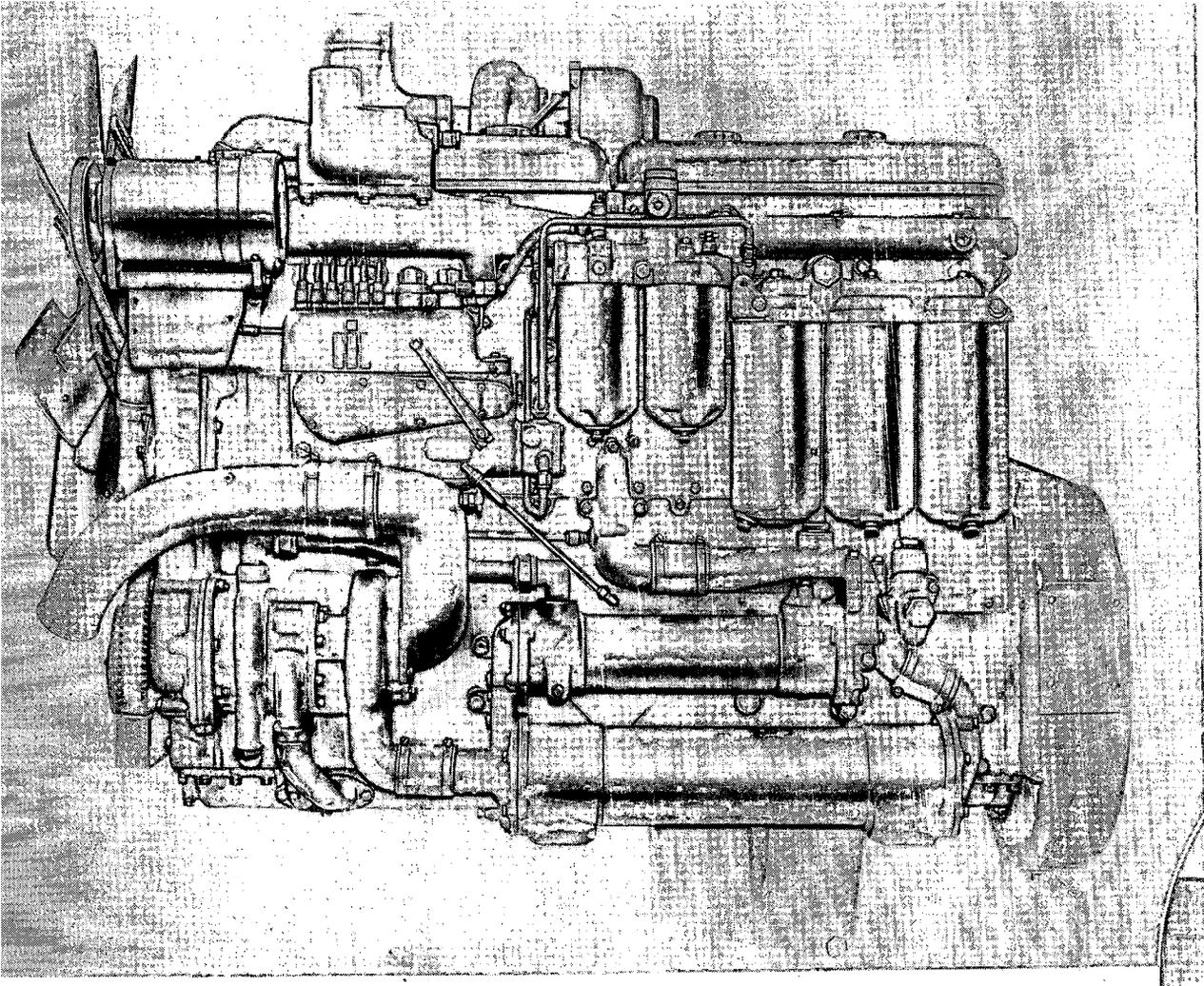
95

NTERNATIONAL HARVESTER INTRODUCES NEW 375 HP HIGH OUTPUT DIESEL



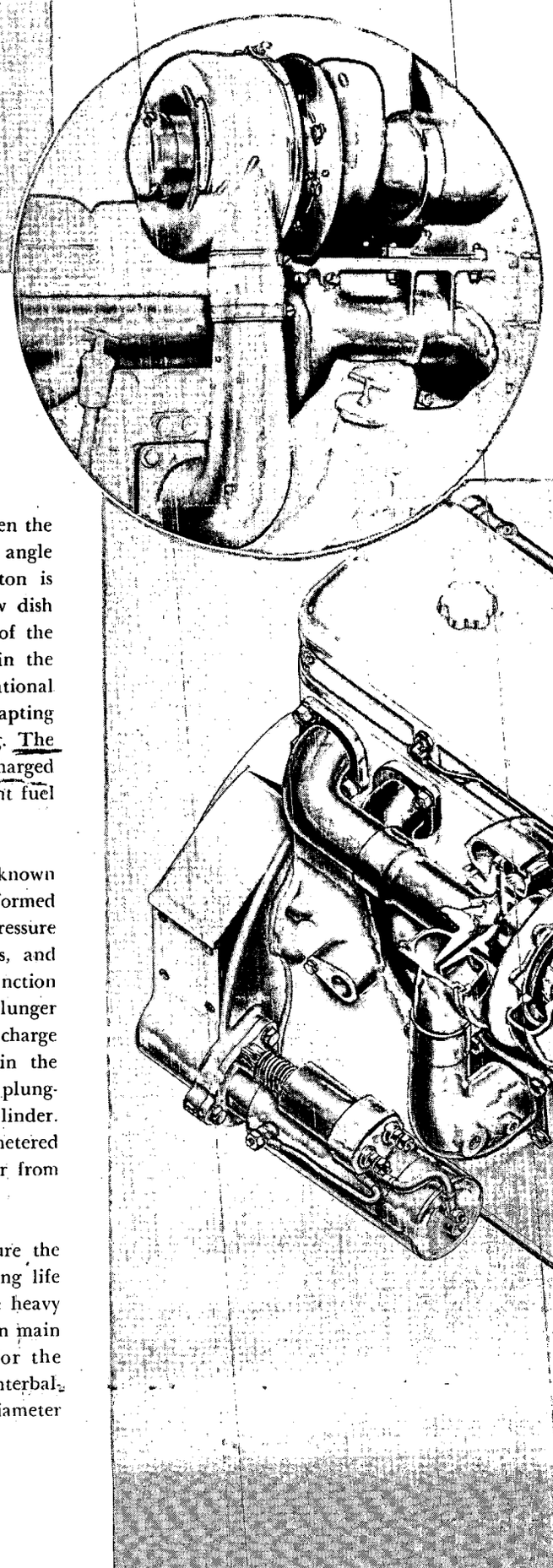
REPRINTED FROM FEBRUARY, 1959 ISSUE OF

DIESEL PROGRESS



Side view of the 375 hp D-817 diesel showing IH fuel injection pump, lube oil and water pump at left, Ross lube oil and torque converter cooler, Purolator three element full flow lube oil filter, and primary and final stage fuel filters. Delco Remy 24 volt generator is also shown.

Schwitzer turbocharger assembly on the D-817 diesel. This is a 4 in. model 650 Schwitzer turbo with a pressure ratio of 2.4. When the engine is developing its maximum 375 hp, the turbine attains speeds as high as 70,000 rpm.



H INTRODUCES NEW 375 HP HIGH OUTPUT DIESEL

By BRUCE W. WADMAN

INTERNATIONAL Harvester has announced an entirely new diesel engine in the 240 to 375 hp range in naturally aspirated and turbocharged versions. Designated the model D-817, this new engine is a six cylinder four cycle unit with a bore of 5⅜ in. and a stroke of 6 in. It displaces 817 cu. in., and has a compression ratio of 16:1. The turbocharged model is rated 375 intermittent hp at 2100 rpm and the naturally aspirated model is rated 240 intermittent hp at 2100 rpm. C. E. (Skip) Jones, Manager of Engine Sales of the IH Construction Equipment Division, reports; "The 817 offers more horsepower than any other diesel in our line. It is a high output, heavy duty engine ideally suited for service in all types of equipment including rubber tired earth-moving equipment, off-highway trucks and large on-highway trucks. This very flexible engine is the ideal power source for all industrial applications including generator sets and marine propulsion duty."

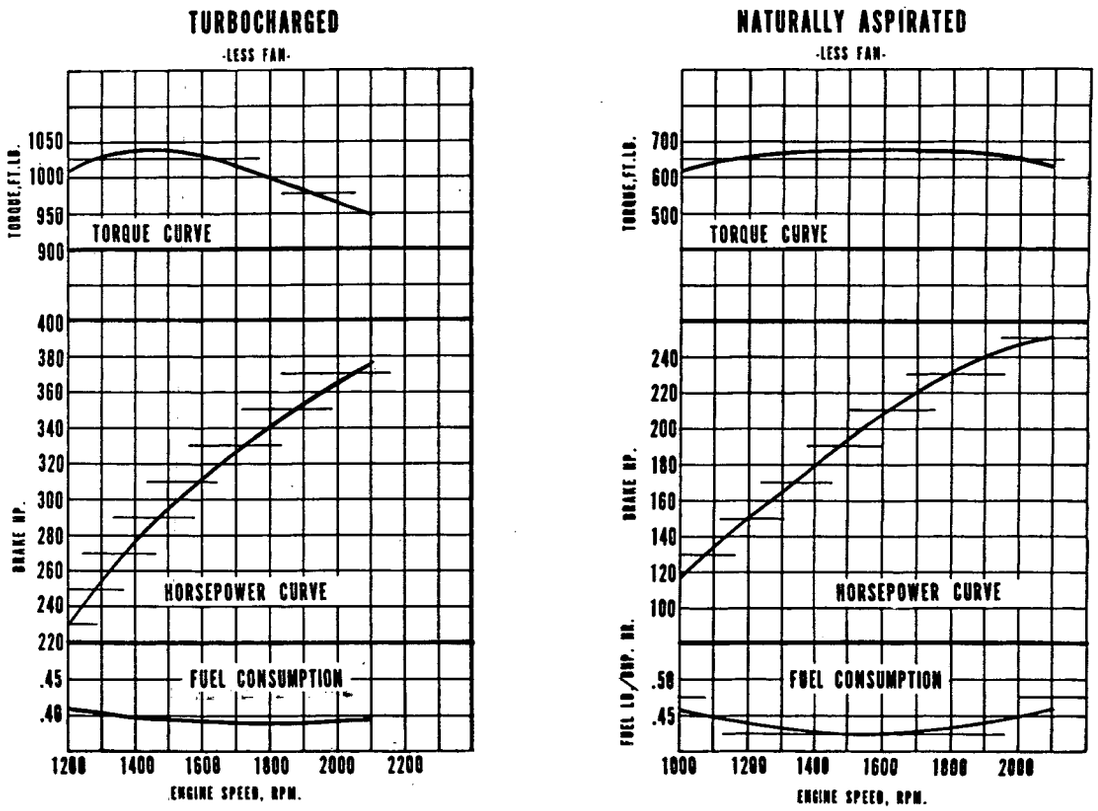
The engine boasts important design features that will be detailed later in the text and in accompanying illustrations, but of prime interest are the combustion chamber design and the fuel injection system. The combustion chamber is of the open type, which permits direct electric starting. It is of symetrical design, air swirl being added by use of an offset counterbore feature in the cylinder intake port. By this means an initial swirl is started as valves open and once started, it lasts through the compression stroke. Each cylinder has four valves for better breathing, two intake valves and two exhaust valves. The fuel injector is positioned vertically in the center of the cylinder between the valve sets, and injects fuel at a 160° spray angle into the cylinder. An aluminum alloy piston is used and the crown is shaped in a shallow dish with a peak in the center. Major features of the combustion chamber and other key areas in the engine have been developed by International engineers with the express purpose of adapting the D-817 most effectively to turbocharging. The accompanying power curves of the turbocharged version vividly point this out in the excellent fuel consumption characteristics indicated.

The fuel injection system takes the well known IH twin plunger pump, which formerly performed all functions of metering and providing pressure for actual injection of fuel into cylinders, and changes it to serve a precision metering function only. This is accomplished by a helical plunger and barrel that gives each cylinder an equal charge of fuel at all times. The fuel is stored in the individual fuel injector and a cam operated plunger in the injector forces fuel into the cylinder. This system provides precise control of metered fuel and results in smooth and even power from all six cylinders.

The crankcase is internally ribbed to insure the extra strength and rigidity required for long life operation under heavy load demands. The heavy ribbing plus thick webs for each of the seven main bearings provide excellent mounting for the crankshaft. The crankshaft is fully counterbalanced and tocco hardened with crankpin diameter

of 3.5 in. and main journal diameter of 4.5 in. The main bearings are trimetal with ground steel backing of .150 thickness and .020 copper-lead bearing overlay with a tin plating .001 thick. The cylinder liners are of wet type construction with separate barrel around each liner to obtain high velocity turbulent coolant flow and good scrubbing action of water around the liner. The connecting rod bearings are of the same construction as the main bearings. The connecting rod bushings are cast bronze on steel backing. The camshaft is made up of three lobes per cylinder, one for the exhaust valves, one for the intake valves, and one for the fuel injector. It is driven directly from the crankshaft at ½ engine speed. The camshaft has seven bearings, thrust being taken on the front bearing. The aluminum alloy pistons have three compression rings and one oil control ring. The top ring is carried in a Ni-Resist insert for long life.

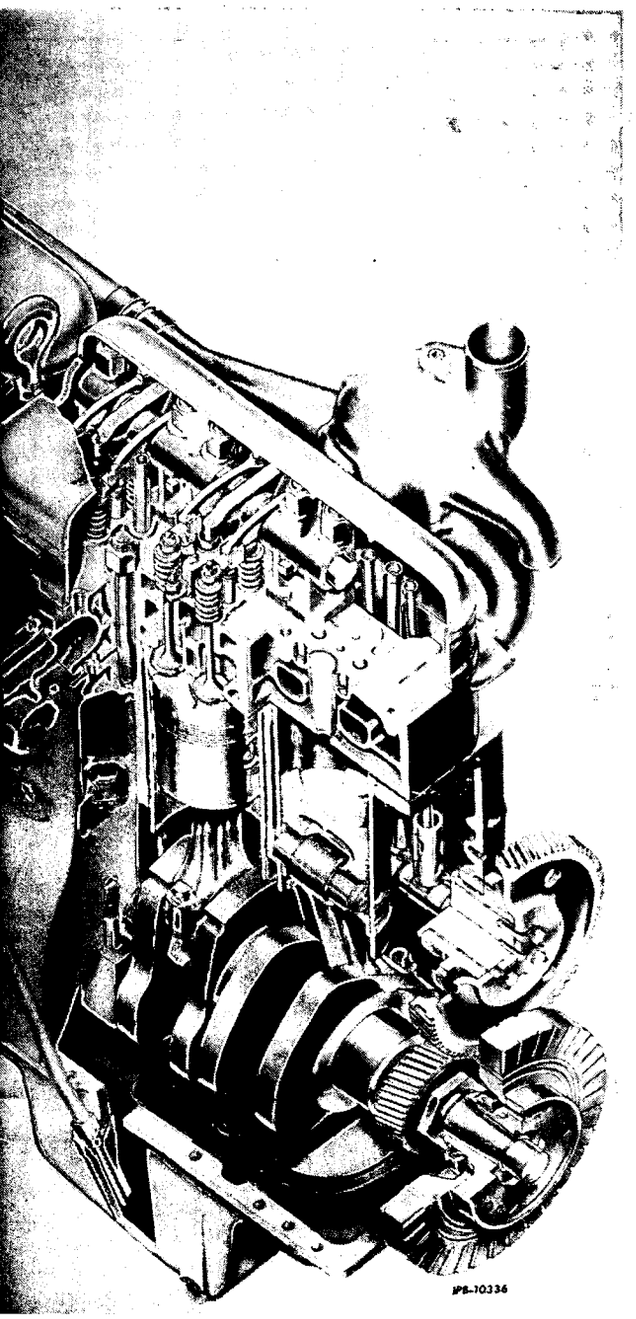
There are two cylinder heads; one for each three cylinders. The rocker arm assembly in each head is mounted on four brackets and is located and held down by the cylinder head studs and nuts. There are three rocker levers per cylinder, one for each set of valves and one for the injector. The two intake and exhaust valves per cylinder are actuated by one lever through a valve bridge. Thompson positive type valve rotators are used on all valves as well as valve seat inserts to promote long valve life. The exhaust valves are stellite; stem diameter is .435 for all valves and port



POWER CURVES

Power curves of the turbocharged and naturally aspirated engine. Note the fuel consumption in the turbocharged engine, indicating a well matched combination of turbocharger and engine.

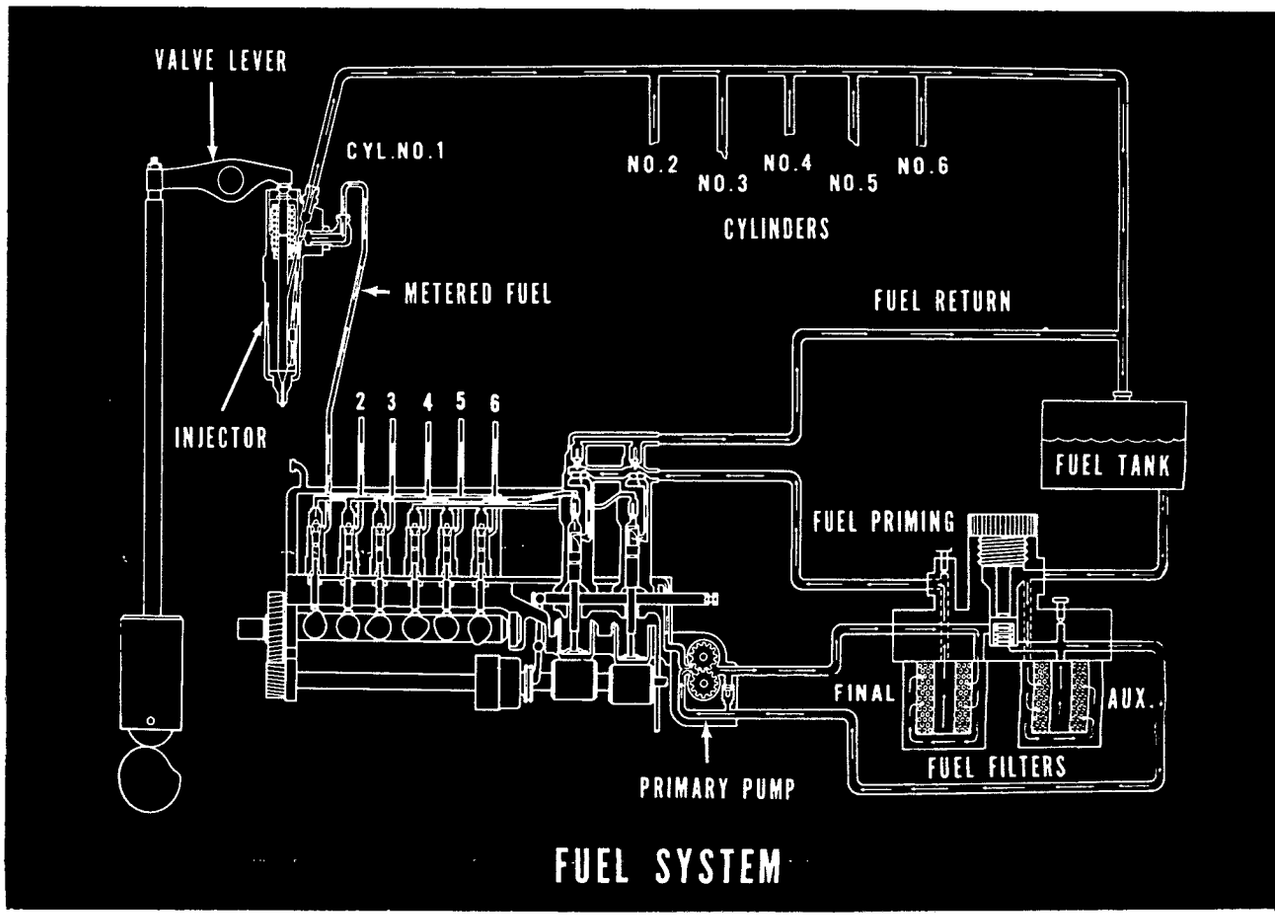
Perspective cutaway showing piston crown shape, valve mechanism, cooling passages, turbocharging system and other major engine parts.



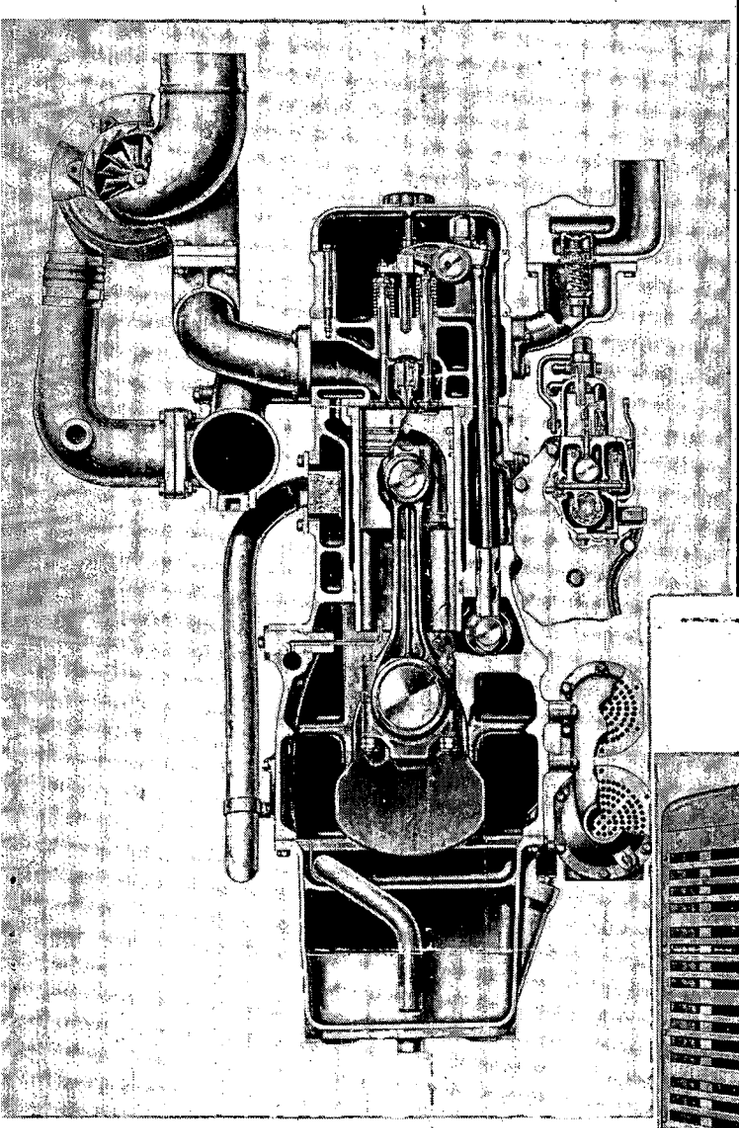
diameter is 1.531. An aluminum cylinder head fence is bolted to the cylinder head, provides protection for the head mechanism and retains the lubricating oil. Rubber seals are inserted in the top and bottom of the fence to prevent leakage and provide easy removal and replacement of fence and valve cover. An aluminum valve cover completes the cylinder head enclosure. A water cooled copper sleeve to carry the injector is inserted in the head and rolled at the top to seal.

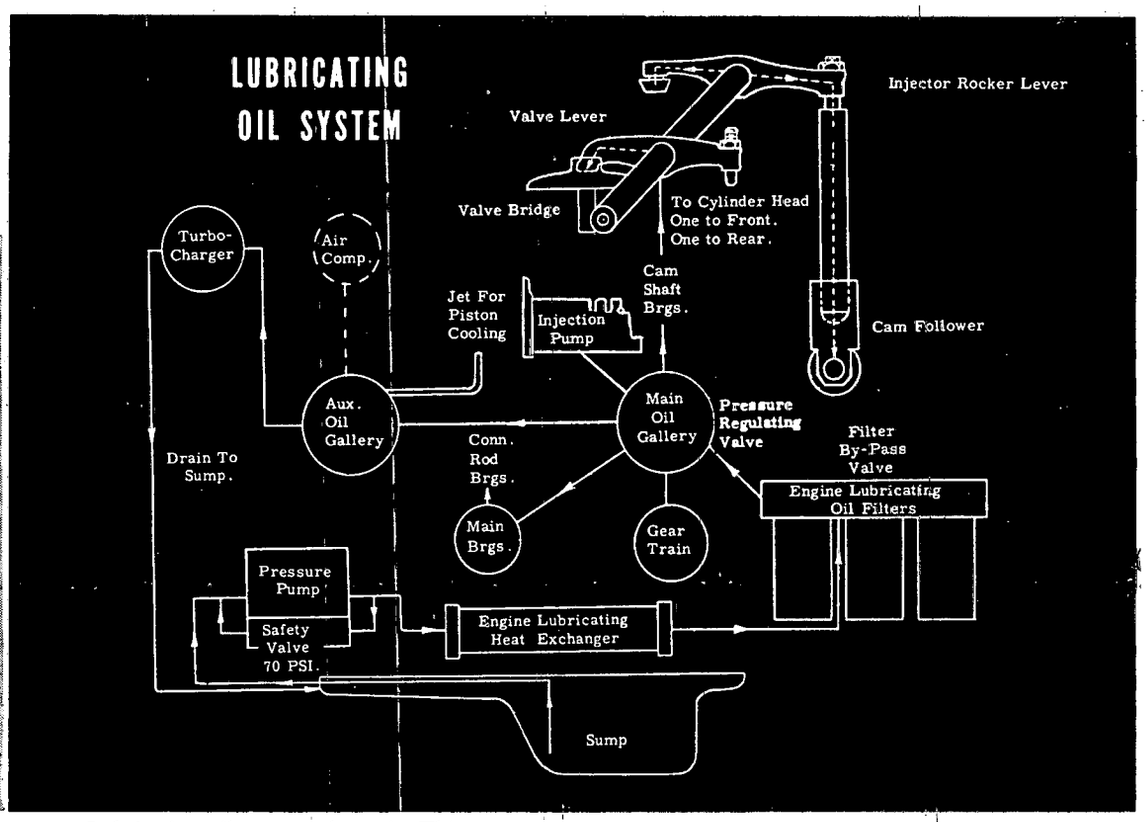
The gear train at the front of the engine consists of nine gears in the complete train, including the hydraulic pump gear and the fan gear. The cooling fan, in a unique feature, is gear driven to provide positive action at all times. Two speed ratios

Fuel system schematic. Arrows indicate flow of fuel from fuel tank through filters, into metering pump, and finally into injectors. Leakage past lapped surfaces in injectors is returned to the fuel tank.

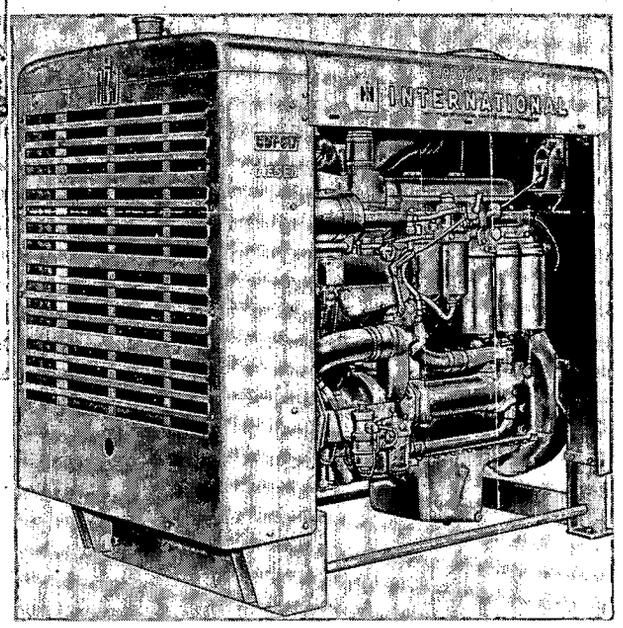


Cutaway view showing turbocharger installation arrangement at left, valve and injector location, thermostatic control of cooling system at right. Note jet arrangement that provides oil cooling of piston.





Lubricating oil system schematic. This is a full pressure system with full flow lube oil filtration. From main oil gallery to points of lubrication an operating pressure of 40 to 45 psi is maintained.



Enclosed power unit version of the 2100 rpm, 375 intermittent hp D-817 turbocharged four-cycle diesel. This is a six cylinder engine with a bore of 5⅜ in. and stroke of 6 in., and displacement of 817 cu. in.

are available by shifting the fan idler mounting in the crankcase. Eight pitch, 20° helical gears are used in the gear train except for the injection pump and pinion gear. Gear train is split so that the total load is not carried through the train.

The cooling system is carefully designed for high efficiency. Coolant flows from the water pump through the engine lubricating oil cooler and torque converter oil cooler when a converter is used. It enters the crankcase between number 3 and 4 cylinders. The coolant then runs through a water gallery which is on the right side of the engine. This water gallery supplies coolant to the cylinder liners. There are two entrance ports at the lower end of each cylinder liner. The coolant leaves the liner barrel at four points 90° apart and enters the cyl. head. The head has a baffle 1¼ in. above the lower surface which directs the coolant along the lower surface of the head and up past the copper injector sleeves. The coolant then flows out over the top of the baffle and cools the port walls, valve guide bosses and the upper area of the head. The coolant leaves the head through a water manifold on the left side of the engine. The front section of the two piece water manifold houses two Detroit Controls Vernatherm thermostats with a temperature range between 165°-180° F. During the warm-up period all the coolant bypasses the radiator and at operating temperature the bypass is closed off and all coolant passes through the radiator. The specific heat rejection is about 30 btu/min./bhp. The coolant flows from the water pump at approximately 140 gpm at 2100 rpm. The water pump is gear driven on a common shaft with the lube oil pump, both being on the outside of the engine for easy access.

The lube oil system has some important features and is illustrated in the accompanying schematic diagram. It is a full pressure system with a lube oil temperature stabilizer that prolongs engine life by controlling the oil temperature during engine warm-up and under heavy operating loads.

The pistons are cooled by an interesting jet arrangement. Lube oil is fed at 1½ gpm from a jet that projects under the cylinder liner and sprays up into the inside of the piston. This eliminates the necessity of drilling passages through the connecting rod for oil cooling of the piston. An auxiliary gallery supplies the lube oil to the jets for each cylinder as well as for the turbocharger lube oil system. Full flow lube oil filteration is used with three Purolator filter elements installed in parallel. The oil pan is reversible to adapt to various applications as the lube oil pump is installed on the outside of the engine.

The fuel system is also illustrated in an accompanying schematic view. The injector has a multiple orifice tip with seven orifices, (.007 dia., 160° included spray angle). Peak fuel injection pressure at full load is 20,000 psi. Metered fuel is pumped to the injector under a pressure of 1000 to 1500 psi and when stored in the injector actually becomes an air fuel mixture because the volume of the chamber under the plunger exceeds the maximum fuel volume delivered.

The electrical system features a 24 volt direct electric starting unit. A 24 volt 15 amp generator is standard equipment also. With the new open type combustion chamber direct electric starts can be quickly accomplished down to 30° F. For quick starts below 30° an ether starting attachment is available.

Dimensions of the turbocharged engine are as follows:

Overall length (w/suction fan)	61.25 in.
Overall length (w/blower fan)	61.38 in.
Overall height	55.50 in.
Overall width	39.36 in.

Weight of the turbocharged engine is 3500 lbs. which is approximately 9 lb./hp @ 375 bhp.

This new engine offers many attractive advantages. It is flexible, offering high output and good fuel economy in a heavy duty design to give long operating life as well as good response characteristics.

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GOVERNMENT OF MYSORE.

MYSORE GOVERNMENT SECRETARIAT,

No. EWD 394 ESH 59 (hmp) Dated Bangalore the 14th December 1959.
Margasira 23 Saka Era 1881.

From

The Under Secretary to the Government of Mysore,
Electrical Department.

To

1- The Secretary to Government P.W. & Electrical Dept.
2. The Deputy Secretary to Govt. Finance Dept.
3. The Special Chief Engineer S.V.P.
4. The Secretary Stores Purchase Committee, Bangalore.

Sir,

Subject: Meeting of the Ad Hoc Committee for the Purchase of machinery for Sharavathi Project.

I am directed to state that the meeting of the Ad Hoc Committee for the purchase of machinery for Sharavathi Valley Project will be held at 11 A.M. on the 15th December 1959 in the Chambers of the Secretary to the Government, P.W. and Electrical Department.

Yours faithfully,

14/12/59

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

Postponed to
1 pm: Secy SPR
has been intimated
over phone -

14/12

mab.5)

97

Meeting of the Ad Hoc Committee for the purchase of machinery for Sharavati Project held in the chambers of the Secretary to Govt., P.W.D. at 2 p.m. on Saturday the 5th December.

Present.-

1. Shri.D.K.Srinivasachar, I.A.S.
   Secretary to Government, P.W.D.(Chairman)
2. Shri.L.C.Muniswami Reddy, B.A.,B.E.,
   Special Chief Engineer,
   Sharavati Valley Project
3. Shri.C.S.Seshadri,
   Under Secretary to Govt., F.D.
4. Shri. N. Rajagopal,
   Assistant Secretary, S.P.C.

Further discussions took place on the question of purchase of Crawler Tractor. In view of certain representations made by Messrs. Voltas, ~~Although in the series of letters they~~ had addressed to the Committee ~~they~~ did not offer to make any ~~reduction~~ in price, it was considered desirable to give them an opportunity ~~in this behalf.~~ It was ~~therefore~~ decided that the representatives of Messrs. Voltas and Messrs. Larson & Toubro be summoned at 3-30 p.m. on Monday the 7th. and that matter be considered thereafter

Chairman

ES 3688
7/12

7/12/63

Mr. Nadamagopal of
Messrs Volkes telephoned
to say that it would
not be possible to obtain
any reduction in the
price of Crawler Tractor
and that he would
confirm it in writing
to-morrow.

8/12

Put this in connected
file

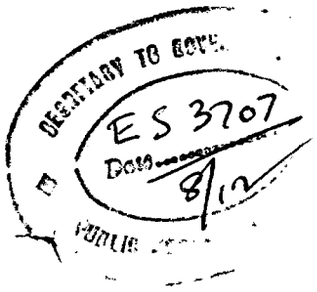
8/12

PWD 394 ESH 59 (Sup) 98

Meeting of the Ad Hoc Committee for the purchase of machinery for Sharavati Project held in the Chambers of the Secretary to Govt., P.W.D. at 3.30 P.M. on Monday the 7th Decr. '59.

P R E S E N T:-

1. Shri D.K.Srinivasachar, I.A.S., Secretary to Govt., PWD (Chairman).
2. Shri L.C. Muniswami Reddy, B.A.,B.E., Special Chief Engineer, Sharavati Valley Project.
3. Shri C.S.Seshadri, Under Secretary to Govt., F.D.
4. Shri N.Rajagopal, Assistant Secretary, S.P.C.



The representatives of Messrs. Voltas Ltd., and Messrs. Larson & Toubro were present. The representative of the former was sent for from and asked if he was prepared to give any reduction in price in view of the fact that an equipment which was considered more suitable was likely to be available at the price quoted by Messrs. Voltas Ltd. The representative wanted time till tomorrow afternoon to give a reply. His reply may be awaited and the matter considered at the next meeting of the Ad Hoc Committee which was tentatively fixed on 14th afternoon at 3.30 P.M.

11 am on 15.12.59

Chairman.

Secy instructed that the meeting may be held at 11 am on 15.12.59 and that all concerned may be intimated in writing and also over Phone.

14/12

99)

MYSORE PUBLIC WORKS DEPARTMENT.

No. 413/PS/S.
Encl :

OFFICE OF THE
SPECIAL CHIEF ENGINEER,
SHARAVATHI VALLEY PROJECT,

KARGAL, Dated 16th Decr: 19 59.

From:

The Special Chief Engineer,
Sharavathi Valley Project.
KARGAL.

To

The Secretary to Government of Mysore,
Public Works & Electricity Departments;
Vidhana Soudha, Bangalore.

Sir,

Subject :-Purchase of equipment and machinery for Sharavathi Valley Project -- Bull-dozer required Rehabilitation work.
Ref: Letter dated 8-12-1959 from Messrs. Voltas Limited, Bangalore, addressed to you and ~~expix~~ and the Secretary, S.P.C.

With reference to the above, I am to state as under:-

1. The general specifications stipulated in the Tender Notification conform more to D-8 Tractors now working in the Sharavathi Valley Project. Since the existing arrangement of an independent starting engine, starting handle and oil-type steering clutches, etc., in D-8 Tractors were definitely found to be more advantageous in the operation of the machine, these ~~conditions~~ specifications were incorporated in the Tender Notification. It was, however, mentioned in the Tender Notification that "any other alternatives in the operation of blade-starting device, clutch mechanism, etc., may also be quoted," just to see that competitive tenders were received.

2. Just as Messers. Voltas Limited have claimed certain advantages in respect of their TD-24 Tractors, Messrs. Larsen & Toubro have putforth some other

(Contd. on page 2)

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advantages in regard to their D-8 Tractors also. Each make has its own advantages and disadvantages. But taking all the factors into account, the D-8 Tractors has more advantages.

3. Regarding the comparison of cost between the single-drum cable control and double-drum cable control, it has to be pointed out that in both the cases single-drum cable control only has been taken account of. Hence, the question of the advantage of Rs.5000/- as claimed by Messrs. Voltas Limited in respect of their make does not come into the picture. Their quotation for the double-drum cable control is Rs.13,770 and that for the single-drum cable control is Rs.7,260. Only the latter has been taken into account in arriving at the total cost of Rs.2,05,440, which is accepted by Messrs. Larsen & Toubro. The breakup of this figure is as under:-

1.	TD-25 Tractor:	Rs.164,820
2.	Bullgrader (Angledozer):	Rs. 24,300
3.	Single-drum cable control:	Rs. 7,260
4.	Pusher Plates:	Rs. 3,610
5.	Bullgrader Pusher Block:	Rs. 2,600
6.	Transmission Case Guard:	Rs. 330
7.	Sprocket Rock Deflector:	Rs. 620
8.	Track Roller Shield:	Rs. 1,900
	Total	Rs.205,440

4. On the other hand, it has to be mentioned that the following items in the case of D-8 Tractors--

1. 25 h.p. Seperate and independent gasoline starting engine,
2. Oil-type clutch, etc. and
3. Life-time lubrication,

whose cost comes to about Rs.10,000 are found to be more advantageous from both operational and economy points of view.

(Contd. page 3)

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5. Above all, the economy in fuel consumption, as found from the log books maintained in the Project, is decidedly an over-riding factor which weighs in favour of D-8 Tractors.

Yours faithfully,

16/12/59

(L.C. MUNISWAMY REDDY),
Special Chief Engineer, SVP.

***

VOLTAS LIMITED

BANGALORE-1

102

MYSORE GOVERNMENT SECRETARIAT
12876
10 DEC 1959
ELECTRICAL BRANCH

CONSTN. EQPT.DEPTT:

2/2, KASTURBA ROAD
TELEPHONES: 6148 & 6149 P.O. BOX No. 125
TELEGRAMS: "VOLTAS"

OUR REFERENCE: CE:943 - E.93635

YOUR REFERENCE:

Bangalore, 8th December 1959

The Secretary
Public Works & Electricity
Government of Mysore
Vidhana Soudha
Bangalore.

Cc: The Secretary
Stores Purchase Committee
"Asiatic Buildings"
Kempegowda Road
Bangalore-9

SECRETARIAT TO GOVERNMENT
No. T-6
10 DEC 1959
PUBLIC WORKS & ELEC. DEPTT

ES

Dear Sir,

Tender No.56-S.V.P. - Supply of Crawler Tractor with Attachments - The Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P. - Closed on 22.10.1959

By representation (Madanagopal) Our views favoured & considered at three way meet with Engrs 9/12/59

We refer to the discussions our Mr. D.N. Madanagopal had with you yesterday, when it was expressed by you, that the Department was of the opinion that Caterpillar D-8 (Series H) Tractor as offered by Messrs. Larsen & Toubro, was exactly to the specifications and requirements and that our offer of International TD-25 Tractor could be considered only if the price is reduced from that already tendered, this situation arising out of Messrs. Larsen & Toubro offering to reduce their price for Caterpillar D-8 (Series H) Tractor to equal that of ours, subsequent to the opening of sealed tenders.

Our Mr. Madanagopal had informed you that the question of price reduction had to be taken up with our Head Office and Principals before giving a definite answer. Our Head Office now inform us as follows :-

(1) No other offer of Tractors except Caterpillars can meet the specifications since the specifications include among other details an independent gasoline auxiliary starting engine for the main diesel engine and oil type engine clutch, as other Manufacturers employ equally efficient alternate methods.

(2) In view of the Departments acknowledged preference for Caterpillar D-8 (Series H) Tractor we believe, the Government could have very well issued a single tender to Messrs. Larsen & Toubro requesting them to furnish F.O.B., C.I.F., and F.O.R. prices duly supported by Manufacturers' documents which procedure is adopted by D.G.S&D., New Delhi under very exceptional circumstances. We do view this enquiry as very exceptional, since 3 International TD-24 Tractors similar to Caterpillar D-8 units have been supplied sometime back through Stores Purchase Committee, Bangalore to P.W.D., of Government of Mysore as follows :-

i) S.V.H.E.P. - No.1 Division, Linganamakki, Left Bank
ii) Vidhana Soudha - now working at Kunigal Sub-Division
iii) Ambligola Reservoir Division

contd..2

and to the best of our knowledge are working to the entire satisfaction of the Divisions.

(3) Our original offer of 9.10.59 has been made in all good faith, with the lowest possible margin of profit and nearest to the specifications and further International Tractor Model TD-25 is in no way inferior but superior to Caterpillar D-8 (Series H) Tractor due to the fact that :-

(1) it has greater drawbar pulls
(2) it has higher maximum forward and reverse speeds and 8 speed Synchromesh Transmission
(3) it has less ground pressure
(4) it has exclusive planet power steering
(5) it has a direct electric start turbocharged diesel engine of 230 H.P. at 1500 RPM having a fuel consumption of only 0.385 lbs. per H.P. hour
(6) it has a 7 roller track frame to prevent the Tractor being nose-heavy when mounted with front single drum cable control unit and Bullgrader (Angledozer)
(7) it has a simple overcenter hand operated sintered metal facing clutch
& (8) Even the D.G.S&D., and C.W&P.C., of New Delhi have accepted International TD-24 (now TD-25) on an equal footing with Caterpillar D-8 (now series H) tractor.

Our offer is for 3 combinations of TD-25 Tractor and Bullgrader (Angledozer) viz:

1) TD-25 (7 Roller Track Frame) with Front Mounted Single Drum Cable Control Unit and Bullgrader
2) TD-25 (7 Roller Track Frame) with Hydraulic Operated Bullgrader
& 3) TD-25 (6 Roller Track Frame) with Rear Mounted Double Drum Cable Control Unit and Bullgrader

It is not correct to compare Caterpillar D-8 (6 Roller Track Frame) with Front Mounted Single Drum Cable Control Unit and Angledozer with combination (3) above as the cost of a double drum cable control unit is atleast Rs.5,000=00 more than the single drum cable control unit. Further due to the fact that the tractor becomes nose-heavy with an Angledozer, it is not good practice for a 6 Roller Tractor to be used with a front mounted single drum cable control unit operated Angledozer and our recommendation is for combination (1) of our offer, which applies to all makes of tractors and not for International Tractors only. Hence our offer of combination (3) even after the prices for Caterpillar D-8 unit have been reduced to equal that of ours is still cheaper by about Rs.5000/- due to the difference in cost of a single drum cable control unit and a double drum cable control unit.

In view of the above our Head Office have regretted their inability to reduce prices from those quoted earlier, as the write-up included for ourselves in the price tendered is the absolute minimum.

However, we must express our disappointment at the turn of events leading to reduction in prices after opening of sealed tenders and hope that should an

contd..3

occasion arise where we are in a position to do likewise, our offer would receive similar consideration.

Assuring you of our best attention at all times, we remain,

Yours faithfully,
VOLTAS LIMITED
By Its Constituted Attorney

The question of purchasing the Bulldozer required for rehabilitation work for Sharavathy was finally considered at the meeting of the Ad hoc Committee held on 15th December 1959 at 1 p.m. The following were present:-

1. Shri.D.K.Srinivasachar, I.A.S.
   Secretary to Govt., P.W. & E. Dept.
2. Shri.R.A.Naik, I.A.S.,
   Dy. Secy. to Govt., Finance Dept.
3. Shri.L.C.Muniswamy Reddy, B.A.,B.E.
   Special Chief Engineer
4. Shri.V.N.Navalgund, M.A.,LL.B.
   Secretary, S.P.C.

The letter sent by Messrs. Voltas Ltd on 9.12.59 in regard to the reduction in the price quoted by them for their equipment was gone through. It was found that they were not prepared to make any reduction in price.

Messrs. Voltas have however referred in their letter to a number of factors which according to them should receive consideration of the Ad hoc Committee. These are:-

(1) their right quotation which was forwarded in response to their tender notification ~~and which was sent in a sealed envelope as required~~ was the lowest and answered the requirements of the project authorities fully;

(2) the later reduction in price offered later, that is to say, after the tenders were opened, by a higher tenderer could not properly be taken into consideration by the Committee and that any negotiations with such higher tenderer for a reduction in price would not be in consonance with the principle or sanctity of tenders;

(3) the tender notification gave specifications which could only be answered by a particular make of equipment, namely, that of Messrs. Larson & Toubro and was therefore in itself defective; and

(4) even assuming that the higher tenderer would be reducing his price to that of their's (that of Messrs. Voltas Ltd.) there would still be a gap of price to the extent of Rs 5000 because of the double drum cable control which Messrs. Voltas have provided in their equipment as against the single drum cable of Messrs. Larson & Toubro.

All these points were discussed by the Committee at length and they are dealt with below seriatim.—

(1)& (2) It is true that the quotation of Messrs. Voltas were the lowest. By the time the Ad hoc Committee considered the question, Messrs. Larson & Toubro had reduced the price by Rs 5000/-. The indentor, namely, the Special Chief Engineer, was definitely of the view that the equipment of Messrs. Larson & Toubro was more suitable and that it may be purchased although it was costlier by about Rs 3000/-. The Committee therefore wanted to find out if Messrs. Larson & Toubro would reduce their price to the level of Messrs. Voltas Ltd. Messrs. Larson & Toubro who were accordingly contacted by the Special C.E. agreed to reduce the price to the level of Messrs. Voltas'. They also confirmed this in writing later. In view of the definite opinion of the Special Chief Engineer about the suitability of the equipment of Messrs. Larson & Toubro and of his views that it would be preferable even with increased cost, it was felt by the Committee that the offer

of Messrs. Larson & Toubro could be considered, especially when the price was reduced to the level of the lowest tenderer.

(3) So far as the specifications in the tender notification were concerned, the Special Chief Engineer ~~undoubtedly~~ agrees that they approximate to the D8 Tractors for which Messrs. Larson & Toubro have quoted. At the same time, it has to be pointed out that there is a note in the tender notification to the following effect:-

"Any other alternatives in the operation of blade, starting device, clutch mechanism etc. may also be quoted."

It is therefore clear that no attempt was made to make the tender notification exclusive and that tenders in respect of other kinds of equipment were also invited.

(4) The contention of Messrs. Voltas that ~~[illegible]~~ even with the reduction offered by Messrs. Larson &Toubro, their price would be higher than that of Messrs. Voltas Ltd. is not correct. The Special Chief Engineer points out that in effecting comparison between the two makes due regard has been paid to the difference in the nature of the equipment, in as much as the comparison of the prices ~~of Messrs. Larson & Toubro equipment~~ has been effected ~~only with that of Messrs. Voltas Ltd.~~ taking into account only the cost of single drum cable as quoted by Messrs. Voltas Ltd. (vide report of the Sp.C.E. dated 16-12-59, para 3). Finally it was brought to notice by the Sp.C.E. that the equipment of Messrs.

Messrs. Larson & Toubro would be cheaper to maintain. It is found from a statement prepared by him that the average consumption of fuel in D8 Tractor (of Messrs. Larson & Toubro) when compared with that of TD 24 (that of Messrs. Voltas Ltd.) as per the log book records from 56-57 up to date would be about 20% less. The exact figures in the two cases being 4.27 gallons per hour and 5.71 gallons per hour. Thus, the equipment which is cheaper to maintain will be secured ~~at the same time~~ at same price if orders were placed with Messrs. Larson & Toubro.

For all these reasons, the Committee decided that the decision taken at the earlier meeting of [illegible] to place orders with Messrs. Larson & Toubro for the Bulldozer (D8 Crawler Tractor) at the lowest tender rate of M/s Voltas Ltd, amounting to Rs 2,05,440 F.O.R. Madras ~~of Messrs. Voltas Ltd.~~ be confirmed.

The main file has been sent to the Ministry for PWD on 27/11/59 with a draft C/O. On its receipt it will be issued.

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18/12

18/12.

(109)

GOVERNMENT OF MYSORE.

MYSORE GOVERNMENT SECRETARIAT,

No.PWD 394 E 1 1959 Dated Bangalore the 17th December 1959.
Margasira 26 Saka Era 1881.

From

The Under Secretary to the Government of Mysore,
Electrical Department.

To

The Secretary to Government P.W. & Electrical Dept.
The Deputy Secretary to Govt. Finance Department
The Special Chief Engineer Sharavathi Valley Project
The Secretary Stores Purchase Committee.

Sir,

Subject: Minutes of the Ad hoc Committee for the purchase of Machinery for Sharavathi Valley Project held on 15th December 1959.

I am directed to forward herewith a copy of the minutes of the Ad hoc Committee meeting held on the 15th December 1959 in the Chambers of the Secretary to Government Public Works and Electrical Department for your information.

Yours faithfully,

17/12/59

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

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The question of purchasing the Bulldozer required for rehabilitation work for Sharavathi was finally considered at the meeting of the Ad hoc Committee held on 15th December 1959 at 1 P.M. The following were present:-

1) Shri D.K.Srinivasachar, I.A.S.,
Secretary to Government,
Public Works and Electrical Department

2) Shri R.A.Naik, I.A.S.,
Deputy Secretary to Government, Finance Department.

3) Shri L.C.Muniswamy Reddy, B.A., B.E.,
Special Chief Engineer, Sharavathi Valley Project.

4) Shri V.N.Navalgund M.A., LL.B.,
Secretary, Stores Purchase Committee.

The letter sent by Messrs. Voltas Ltd., on 9th December 1959 in regard to the reduction in the price quoted by them for their equipment was gone through. It was found that they were not prepared to make any reduction in price.

Messrs. Voltas have however referred in their above mentioned letter to a number of factors which according to them should receive the consideration of the Ad Hoc Committee. These are:-

(1) That their sealed tender which was forwarded in response to their tender notification was the lowest and answered the requirements of the project authorities fully;

(2) that the reduction in price offered later, that is to say, after the tenders were opened, by a higher tenderer could not properly be taken into consideration by the Committee and that any negotiations with such higher tenderer for a reduction in price would not be in consonance with the principle or sanctity of tenders;

(3) that the tender notification drawn up by the department gave out specifications which could only be answered by a particular make of equipment, namely, that of Messrs. Larson and Toubro and was therefore in itself defective; and

(4) that even if the reduction in price allowed by a higher tenderer should be found to be acceptable, there

(continued)

would still be a gap in the prices to the extent of Rs.5000/- because of the double drum cable control which Messrs. Voltas have provided in their equipment as against the single drum cable of Messrs. Larson & Toubro.

All these points were discussed by the Committee at length and they are dealt with below seriatum:-

(1) and (2) It is true that the quotation of Messrs. Voltas was the lowest and that initially, even the Special Chief Engineer recommended its acceptance. By the ti , however, the Ad hoc Committee first considered the question, Messr . Larson & Toubro had reduced the price by Rs.5000/-. The indebtor, namely, the Special Chief Engineer, was definitely of the view at the time of the first meeting that the equipment of Messrs. Larson & Toubro was more suitable and that it may be purchased although it was costlier by about Rs.3000/-. The Committee therefore wanted to find out if Messrs. Larson & Toubro would reduce their price to the level of Messrs. Voltas Ltd. Messrs. Larson & Toubro who were accordingly contacted by the Special Chief Engineer agreed to reduce the price to the levelof Messrs. Voltas tender. They also confirmed this in writing later. In view of the definite opinion of the Special Chief Engineer about the suitability of the equipment of Messrs. Larson & Toubro and of his views that it was to be preferred even with increased cost, it was felt by the Committee that the offer of Messrs. Larson & Toubro should be considered, especially when the price was reduced to the level of the lowest tender.

(3) So far as the specifications in the tender notification were concerned, the Special Chief Engineer agrees that they approximate to the D8 Tractors for which Messrs. Larson & Toubro have quoted. At the same time it has to be pointed out that there is a note in the tender

notification to the following effect:-

"Any other alternatives in the operation of blade, starting device, clutch mechanism etc., may also be quoted." It is therefore clear that no attempt was made to make the tender notification exclusive and that tenders in respect of other kinds of equipment were also invited.

(4) The contention of Messrs. Voltas that even with the reduction offered by Messrs. Larson & Toubro, the price would be higher than that of Messrs. Voltas Ltd., is not correct. The Special Chief Engineer points out that in effecting comparison between the two makes due regard has been paid to the difference in the nature of the equipment, in as much as the comparison of the prices has been effected after taking into account only the cost of single drum cable as quoted by Messrs. Voltas Ltd (vide report of the Special Chief Engineer dated 16-12-1959, para 3).

Finally it was brought to notice during the meeting by the Special Chief Engineer that the equipment of Messrs. Larson & Toubro would be cheaper to maintain. It is found from a statement prepared by him that the average consumption of fuel in D8 Tractor (of Messrs. Larson & Toubro) when compared with that of TD 24 (that of Messrs. Voltas Ltd.) as per the log book records from 56-57 up to date, would be about 20% less, the exact figures in the two cases being respectively 4.27 gallons per hour and 5.71 gallons per hour. Thus, the equipment which is cheaper to maintain will be secured at the same price if orders were placed with Messrs. Larson & Toubro.

For all these reasons, the Committee decided that the decision taken at the earlier meeting of 16.11.1959 to place orders with Messrs. Larson & Toubro for the Bulldozer (D8 Crawler Tractor) at the lowest tender rate of Messrs. Voltas Ltd., amounting to Rs.2,05,440/- F.O.R. Madras be confirmed.

(Mohammed Fasihuddin)
Under Secretary to Government

The question of purchasing the Bulldozer required for rehabilitation work for Sharavathi was finally considered at the meeting of the Ad hoc Committee held on 15th December 1959 at 1 P.M. The following were present:-

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Special Chief Engineer, Sharavathi Valley Project.

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(continued)

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All these points were discussed by the Committee at length and they are dealt with below seriatum:-

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notification to the following effect:-

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Finally it was brought to notice during the meeting by the Special Chief Engineer that the equipment of Messrs. Larson & Toubro would be cheaper to maintain. It is found from a statement prepared by him that the average consumption of fuel in D8 Tractor (of Messrs. Larson & Toubro) when compared with that of TD 24 (that of Messrs. Voltas Ltd.) as per the log book records from 56-57 up to date, would be about 25% less. The exact figures in the two cases being respectively 4.27 gallons per hour and 5.71 gallons per hour. Thus, the equipment which is cheaper to maintain will be secured at the same price if orders were placed with Messrs. Larson & Toubro.

For all these reasons, the Committee decided that the decision taken at the earlier meeting of 16.11.1959 to place orders with Messrs. Larson & Toubro for the Bulldozer (D8 Crawler Tractor) at the lowest tender rate of Messrs. Voltas Ltd., amounting to Rs.2,05,440/- F.O.R. Madras be confirmed.

M. Fasihuddin

(Mohammed Fasihuddin)
Under Secretary to Govern

PROCEEDINGS OF THE GOVERNMENT OF MYSORE. 116)

Subject:-Purchase of equipment and machinery for Sharavathi Valley Project.

R e a d -

Letter No.318-20/P.S./S dated the 11th November 1959 from the Special Chief Engineer, S.V.P.

The proposals put up by the Special Chief Engineer were considered by the Ad-hoc Committee at its meeting held on 16th November 1959 ~~and~~ which resolved as hereunder:

1. Purchase of Earth moving Equipment (Crawler Tractor with attachment).

The quotations of Messrs. Standard Machinery Co., Grieves Cotton, William Jacks as also the quotation of Messrs. Larson and Toubro for D9 Catterpillar Tractor have not been considered because in the first three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much higher than that required. The remaining quotations are those of Messrs. Voltas Ltd., and that of Messrs. Larson and Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs.2,05,840/-including the cost of accessories. This price is F.O.R. Madras. It is however found that the transport charges from Madras to Talaguppa will be about Rs.4000/-. This raises the quotation of Messrs. Voltas Ltd., to about Rs.2,09,840/- if delivery F.O.R.Talaguppa is taken into account. During the discussions, the Special Chief Engineer considered that the equipment offered by Messrs. Larson & Toubro for D8 Crawler would be preferable (although he had earlier recommended the acceptance of the quotation of Messrs. Voltas) as it is equipped with oil type steering clutch and life-time lubrication for rollers. Since the quotations were taken into consideration Messrs. Larson & Toubro stated to have written to the Spl. Chief Engineer saying that they are prepared to reduce their quotation by Rs.5000/-. In view of the preference expressed by the Special Chief Engineer the Committee considered whether Messrs. Larson & Toubro may not be asked to to reduce their quotation further so as to be about equal to M/s.Voltas ~~Ltd~~ On enquiry by the Special Chief Engineer during the meeting, it was disclosed that M/s. Larson & Toubro would be prepared to reduce their price further so as to be equal to the lowest quotation, namely, that of M/s. Voltas Ltd. It is accordingly decided that the D8 Crawler Tractor offered by M/s. Larson & Toubro be purchased at a price equal to that offered by M/s. Voltas for their equipment (F.O.R. Madras) plus transport charges from Madras to Talaguppa.

(Contd.)

117)

2. Purchase of Water supply materials.

(1) G.I.pipes with collars.

The proposal of the Special Chief Engineer are agreed to except in the case of 2" pipes where it is seen that the quotation of M/s. M.C.Sudararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charges and loading and unloading charges involved in the offer F.O.R.Talaguppa are taken into consideration, as M/s.Sundararajan & Co., are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that quotation of M/s. Sundararajan & Co.; for "2 pipes (12,200 Rft.) may be accepted

In regard to other items, the Special Chief Engineer's recommendations are agreed agreed to. It is noted that in the case o G.M.Glad cocks, wheel valves and S.W.Big cocks, the quotations other than the lowes have been recommended for the reason that the firm with which the orders are proposed to be placed are the sole agents.

3. Purchase of Electric Motors.

30 H.P.Motors - Special Chief Engineer's recommendation approved.

75 H.P.Motors.

It is stated that the motor is required immediately to operate the compressor and that on this ground the lowest offer of Es.9500/-with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of M/s.Tropical Engineering Co., for Rs.9600/-be accepted subject to the firm giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that M/s. Tropical Engineering Co., do not agree to supply within the next one month, orders may be placed with M/s.Goldsmith & Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

4. Blue printing machine.

The only quotation received, namely, that of M/s. Essen Engineering Co., Ltd., Madras may be accepted subject to the terms and conditions mentioned in the note of the Special Chief Engineer.

5. Purchase of copper wires,6 BS and 10BS.

The purchase is stated to have been made already. Necessary ratification for sanction will have to be obtained from Government separately. The Ad-hoc Committee need not consider this.

6. Purchase of materials for operating the Mortar Mills. M.S.Shafting 3" dia.12' long- No.required 90.

(Contd.)

115)

It is stated that the firm with which orders were placed at Rs.91.34 F.O.R.Bombay pleads inability to make the supply. M/s. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier which works out to a little over Rs.91/- per Cwt and which is somewhat less than th quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this Frim at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have normally thought of calling for fresh tenders.

It is noted that M/s. Natwarlal & Co., who had not previously quoted have now mad an offer at Rs.90/-per CWT F.O.R.Talaguppa Since this frim had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talaguppa their quotation is not taken into consideration.

7. Pulleys: 15" and 40" Dia.

In this case also M/s. Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/-for 15" Dia. Pulley and Rs.210/-for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised price of Rs.54/-has to be accepted as no earnest deposit was recovered from the Contractor and that no penalty can be levied and no contract had also been concluded. The proposal of the Special Chief Engineer to place orders with this firm for 15" pulley at the revised price of Rs.54/-is therefore agreed to only for the number immediately required by the Special Chief Engineer (Stated to be 50).

As regards 40" Pulleys, it is felt that the revised offer of M/s.Thaibey Machinery Stores need not be considered, and that in view of the failure of the Company making the next higher offer of Rs.189/-to make the supply the offer of M/s.Calcutta Corporation at the same rate of Rs.210/-may be accepted and orders placed with them, instead of with M/s. Thaibey Machinery Stores.

119)

ORDER No.PWD 394 ESH 59.

Bangalore,Dated

The recommendations of the Ad-hoc Committee are accepted and approved.

By Order , etc.,

Under Secretary to Government,
Electrical Department.

To

The Special Chief Engineer, S.V.P.Kargal.

The Accountant General, Mysore, Bangalore through Finance Department.

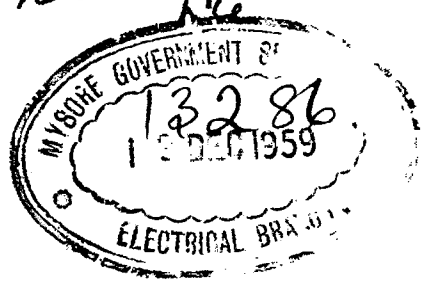
The Chief Accounts Officer, S.V.P. Kargal. though Finance Department.

Place ad hoc committee file

PWD 394 ES 59

COPY

OLTAS LIMITED, BOMBAY

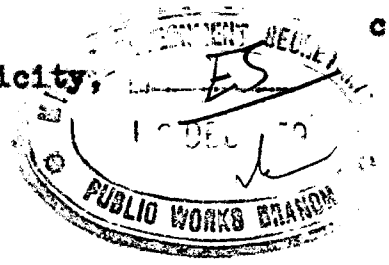


120

CE:E.51794/Bangalore

Bombay - 15th December 1959.

The Secretary,
Public Works & Electricity,
Government of Mysire,
Vidhana Soudha,
BANGALORE



c.c. The Deputy Minister,
Finance, Govt. of Mysore,
Vidhana Soudha,
BANGALORE

Dear Sir,

Tender No.56-S.V.P. - for Supply of Crawler Tractor with Attachments - The Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P. - Closed on 22.10.1959.

1. We refer to our letter No. CE.720-E.93635 dated the 17th November, 1959, addressed to the Deputy Minister of Finance, furnishing a comparison on a price basis of Cat. D8 Series H Tractors and International Harvester TD-25 Tractor and to our subsequent letter CE:868/E.93635 of the 1st of December, 1959, addressed to you.

N. M. SHAMSUDDIN
Deputy Minister for Finance

2. As we understand from our Bangalore Office, Messrs. Larsen & Toubro have reduced the price originally quoted for their Cat. D-8 tractor to the price quoted by us for the TD-25 and that you have now requested our representative in Bangalore to reduce our quotation by some Rs.5000.-.

3. In this connection we would point out that this Company and our Principals make a practice of quoting the best possible price, taking into consideration various factors involved when making the original offer. The price we have quoted in this instance is considerably below the list price for an International Harvester TD-25. It is never our endeavour to obtain an exhorbitant profit at the expense of the purchaser, particularly so when the purchaser is a Government or State Government Department. Being an Indian Company we principally consider the welfare of the country as well as the welfare of our own Company.

4. The practice employed by some of our competitors of quoting high prices which will allow them very high margins in the hope that they may be successful in making an exhorbitant profit is discouraged by us. They are only able to indulge in this practice with the connivance of the purchasers who after the Tender has been opened permit them to reduce their quotation to the level of the lowest acceptable bid. In this instance it is obvious that had our bid been some 2000 to Rs.3000.- higher, Messrs. Larsen & Toubro would only have reduced to that level and if they had received the order, retained the balance of their profits.

VL 71-200 PKTS. 3 SETS P.T.

COPY

(24)

5. We feel very strongly that this practice should be discouraged for the good of the country and honest traders.

6. We would further point out that throughout the country and by the C.W.P.C. the International Harvester TD-25 is considered in every way equal to the Cat. D-8 and price should be the only consideration when purchasing.

6. In view of our having offered you the TD-25 at the lowest possible price and with the smallest margin comparable with the service we give, we trust you will re-consider your request that we reduce our price by a further Rs.5000.- and place your order with us considering only the original price quoted.

Yours faithfully,
VOLTAS LIMITED
By its Constituted Attorney

D.J.D. Sussex

DJDS/ac

PWD 394 ESW 89

VOLTAS LIMITED

CONSTRUCTION EQUIPMENT DEPARTMENT

BOMBAY 12

13287
21 DEC 1959
ELECTRICAL BRANCH

122

PLEASE ADDRESS REPLY TO THE
CONSTRUCTION EQUIPMENT DEPT.

CHINCHPOKLI ROAD, BOMBAY 12
P.O. BOX 6013 TELEGR: "VOLTAPAREL"
TELEPHONE: 70041 (8 LINES)

OUR REFERENCE: CE:E.51794/Bangalore

Bombay - 15th December 1959.

The Secretary,
Public Works & Electricity,
Government of Mysore,
Vidhana Soudha,
BANGALORE

SECRETARIAT NO T-18 18 DEC 1959 PUBLIC WORKS & ELEC.

c.c. The Deputy Minister,
Finance, Govt. of Mysore,
Vidhana Soudha,
BANGALORE

Secy
Dept. Secretariat
MYSORE GOVERNMENT SECRETARIAT NO EC 1 PUBLIC WORKS BRANCH

Put up with connected file & papers

Tender No.56-S.V.P. - for Supply of Crawler Tractor with Attachments - The Executive Engineer, Stores Division, Talakalale Circle, S.V.H.E.P. - Closed on 22.10.1959.

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Yours faithfully,
VOLTAS LIMITED
By its Constituted Attorney

D.J.D. Sussex

DJDS/ac

Minutes of the meeting of the Ad hoc Committee sanctioned in G.O.No.85 PWI 57, dated the 16th January 1958 for the purchase of machinery.

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Present:

1. Shri S.K.Srinivasachar, I.A.S.,
   Secretary to Government, P.W.D. and Electrical Department (Chairman)

2. Shri K.A.Naik, I.A.S.,
   Deputy Secretary to Government, Finance Department.

3. Shri V.S.Navalgund, B.A., LL.B.,
   Secretary, Stores Purchase Committee.

4. Shri L.S.Muniswamy Reddy, B.A., B.E.,
   Special Chief Engineer, Sharavathi Valley Project.

Before considering the subjects put up for the meeting there was a discussion on the question whether it would be necessary for the Ad hoc Committee to continue to function in future in view of the fact, firstly, that departmental work is no longer being resorted to in the Sharavathi Valley Project, and secondly, the procedure in the case of Stores Purchase Committee has been considerably modified. It was felt after discussion that it would not be necessary for the ad hoc Committee to consider such subjects any longer and that they might as well be referred to the Stores Purchase Committee. Action will be taken accordingly in future.

(1) Purchase of Earth moving Equipment (Crawler Tractor with attachment).

The quotations of Messrs.Standard Machinery Co., Grieves Cotton, William Jacks as also the quotation of Messrs Larson and Toubro for D9 Catterpillar Tractor have not been considered because in the first three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much higher than that required. The remaining quotations are those of Messrs. Voltas Ltd., and that of Messrs. Larson and Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs.2,05,840/- including the cost of accessories. This price is F.O.R. Madras. It is however found that the transport charges

(continued)

from Madras to Talgupna will be about Rs.4000/-. This rises the quotation of Messrs. Voltas Ltd., to about Rs.2,09,840/- if delivery F.O.R. Talagupna is taken into account. During the discussions, the Special Chief Engineer considered that the equipment offered by Messrs. Larson & Toubro for D8 Crawler would be preferable (although he had earlier recommended the acceptance of the quotation of Messrs. Voltas) as it is equipped with oil type steering clutch and life-time lubrication for rollers. Since the quotations were taken into consideration Messrs. Larson & Toubro stated to have written to the Special Chief Engineer saying that they are prepared to reduce their quotation by Rs.5000/-. In view of the preference expressed by the Special Chief Engineer the Committee considered whether Messrs. Larson & Toubro may not be asked to reduce their quotation further so as to be about equal to Messrs. Voltas. On enquiry by the Special Chief Engineer during the meeting, it was disclosed that Messrs. Larson & Toubro would be prepared to reduce their price further so as to be equal to the lowest quotation, namely, that of Messrs. Voltas Ltd. It is accordingly decided that the D8 Crawler Tractor offered by Messrs. Larson & Toubro be purchased at a price equal to that offered by Messrs. Voltas for their equipment (F.O.R. Madras) plus transport charges from Madras to Talgupna.

(2) Purchase of Water supply materials.

(1) G.I.pipes with collars.

The proposal of the Special Chief Engineer are agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.C.Sundararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charges and loading and unloading charges involved in the offer F.O.R. Talgupna are taken into consideration, as Messrs.

(continued)

Sundararajan and Co., are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that quotation of Messrs. Sundararajan & Co., for 2" pipes (12,200 Rft) may be accepted.

In regard to other items, the Special Chief Engineer's recommendation are agreed to. It is noted that in the case of G.M.Gland cocks, wheel valves and G.M. Big cocks, the quotations other than the lowest have been recommended for the reason that the firm with which the orders are proposed to be placed are the sole agents.

(3) Purchase of Electric Motors.

30 H.P. Motors - Special Chief Engineer's recommendation approved.

75 H.P. motors.

It is stated that the motor is required immediately to operate the compressor and that on this groundthe lowest offer of Rs.9500/- with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs. Tropical Engineering Co., for Rs.9600/- be accepted subject to the firm giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that Messrs. Tropical Engineering Co., do not agree to supply within the next one month, orders may be placed with Messrs. Goldsmith & Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

(4) Blue printing machine.

The only quotation received, namely that of Messrs. Hasen Engineering Co., Ltd., Madras may be accepted subject to the terms and conditions mentioned in the note of the Special Chief Engineer.

(5) Purchase of copper wire 6 BS and 10 BS

(continued)

The purchase is stated to have been made already. Necessary ratification or sanction will have to be obtained from Government separately. The Ad hoc Committee need not consider this.

(6) Purchase of materials for operating the Mortar Mills. M.S.Shafting 3" dia.12" long - No. required 90.

It is stated that the firm with which orders were placed at Rs.91.34 F.O.R. Bombay pleads inability to make the supply. Messrs. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier) which works out to a little over Rs.91/- per Cwt and which is somewhat less than the quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this Firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have normally thought of calling for fresh tenders.

It is noted that Messrs. Natwarlal & Co., who had not previously quoted have now made an offer at Rs.90/- per Cwt F.O.R. Talaguppa. Since this firm had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talgup a their quotation is not taken into consideration.

(7) Pulleys: 15" and 40" Dia.

In this case also Messrs Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/- for 15" Dia. Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised price of

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As regards 40" Pulleys, it is felt that the revised offer of Messrs. Thaibey Machinery Stores need not be considered, and that in view of the failure of the Company making the next higher offer of Rs.189/- to make the supply the offer of Messrs. Calcutta Corporation at the same rate of Rs.210/- may be accepted and orders placed with them, instead of with Messrs. Thaibey Machinery Stores.

Mo. Fasihuddin

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.8)

Minutes of the meeting of the Ad hoc Committee sanctioned in G.O.No.85 DH 57, dated the 16th January 1958 for the purchase of machinery.

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Present:

1. Shri S.K.Srinivasachar, I.A.S.,
   Secretary to Government, P.W.D. and Electrical Department (Chairman)

2. Shri M.A.Naik, I.A.S.,
   Deputy Secretary to Government, Finance Department.

3. Shri V.S.Navalgund, B.A., LL.B.,
   Secretary, Stores Purchase Committee.

4. Shri L.C.Muniswamy Reddy, B.A., B.E.,
   Special Chief Engineer, Sharavathi Valley Project.

Before considering the subjects put up for the meeting there was a discussion on the question whether it would be necessary for the Ad hoc Committee to continue to function in future in view of the fact, firstly, that departmental work is no longer being resorted to in the Sharavathi Valley Project, and secondly, the procedure in the case of Stores Purchase Committee has been considerably modified. It was felt after discussion that it would not be necessary for the ad hoc Committee to consider such subjects any longer and that they might as well be referred to the Stores Purchase Committee. Action will be taken accordingly in future.

(1) Purchase of earth moving Equipment (Crawler Tractor with attachment).

The quotations of Messrs.Standard Machinery Co., Grieves Cotton, William Jacks as also the quotation of Messrs Larson and Toubro for D9 Catterpillar Tractor have not been considered because in the first three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much higher than that required. The remaining quotations are those of Messrs. Voltas Ltd., and that of Messrs. Larson and Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs.2,05,840/- including the cost of accessories. This price is F.O.R. Madras. It is however found that the transport charges

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(2) <u>Purchase of Water supply materials.</u>

(1) <u>C.I.pipes with collars.</u>

The proposal of the Special Chief Engineer are agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.C.Sundararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charg and loading and unloading charges involved in the offer F.O.R. Talguppa are taken into consideration, Messrs.

(continued)

Sundararajan and Co., are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that quotation of Messrs. Sundararajan & Co., for 2" pipes (12,200 mft) may be accepted.

In regard to other items, the Special Chief Engineer's recommendation are agreed to. It is noted that in the case of G.M.Gland cocks, wheel valves and G.M.Big cocks, the quotations other than the lowest have been recommended for the reason that the firm with which the orders are proposed to be placed are the sole agents.

(3) Purchase of Electric Motors.

30 H.P. Motors - Special Chief Engineer's recommendation approved.

75 H.P. motors.

It is stated that the motor is required immediately to operate the compressor and that on this groundthe lowest offer of Rs.9500/- with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs. Tropical Engineering Co., for Rs.9600/- be accepted subject to the firm giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that Messrs. Tropical Engine ring Co., do not agree to supply within the next one month, orders may be placed with Messrs. Goldsmith & Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

(4) Blue printing machine.

The only quotation received, namely that of Messrs. Larsen Engineering Co., Ltd., Madras may be accepted subject to the terms and conditions mentioned in the note of the Special Chief Engineer.

(5) Purchase of copper wire 6 BG and 10 BG

(continued)

The purchase is stated to have been made already. Necessary ratification or sanction will have to be obtained from Government separately. The ad hoc Committee need not consider this.

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It is stated that the firm with which orders were placed at Rs.91.34 F.O.R. Bombay pleads inability to make the supply. Messrs. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier) which works out to a little over Rs.91/- per Cwt and which is somewhat less than the quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills as that the working season has already commenced, although the committee would have normally thought of calling for fresh tenders.

It is noted that Messrs. Natwarlal & Co., who had not previously quoted have now made an offer at Rs.90/- per C/T F.O.R. Talaguppa. Since this firm had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talgupa their quotation is not taken into consideration.

(7) Pulleys: 15" and 40" Dia.

In this case also Messrs Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotation and the rates quoted are Rs.54/- for 15" Dia. Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised price of

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Mo. Fasihuddin

(Mohammed Fasihuddin)
Under Secretary to Government
Electrical Department.

mab.8)

Minutes of the meeting of the Ad hoc Committee sanctioned in G.O.No.85 P&II 57, dated the 16th January 1958 for the purchase of machinery.

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Present:

1. Shri D.R.Srinivasachar, I.A.S.,
   Secretary to Government, P.W.D. and Electrical Department (Chairman)

2. Shri M.A.Naik, I.A.S.,
   Deputy Secretary to Government, Finance Department.

3. Shri V.S.Navalgund, M.A., LL.B.,
   Secretary, Stores Purchase Committee.

4. Shri T.C.Muniswamy Reddy, B.A., B.E.,
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Before considering the subjects put up for the meeting there was a discussion on the question whether it would be necessary for the Ad hoc Committee to continue to functi in future in view of the fact, firstly, that departmental work is no longer being resorted to in the Sharavathi Valley Project, and secondly, the procedure in the case of Stores Purchase Committee has been considerably modified. It was felt after discussion that it would not be necessary for the ad hoc Committee to consider such subjects any longer and that they might as well be referred to the Stores Purchase Committee. Action will be taken accordingly in future.

(1) Purchase of Earth moving Equipment (Crawler Tractor with attachment).

The quotations of Messrs.Standard Machinery Co., Grieves Cotton, William Jacks as also the quotation of Messrs Larson and Toubro for D9 Catterpillar Tractor have not been considered because in the first three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much nigher than that required. The remaining quotations are those of Messrs. Voltas Ltd., and that of Messrs. Larson and Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs.2,05,840/- including the cost of accessories. This price is F.O.R. Madras. It is however found that the transport charg

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from Madras to Talguppa will be about Rs.4000/-. This raises the quotation of Messrs. Voltas Ltd., to about Rs.2,09,840/- if delivery F.O.R. Talguppa is taken into account. During the discussions, the Special Chief Engineer considered that the equipment offered by Messrs. Larsen & Toubro for D8 Crawler would be preferable (although he had earlier recommended the acceptance of the quotation of Messrs. Voltas) as it is equipped with oil type steering clutch and life-time lubrication for rollers. Since the quotations were taken into consideration Messrs. Larsen & Toubro stated to have written to the Special Chief Engineer saying that they are prepared to reduce their quotation by Rs.5000/-. In view of the preference expressed by the Special Chief Engineer the Committee considered whether Messrs. Larsen & Toubro may not be asked to reduce their quotation further so as to be about equal to Messrs. Voltas. On enquiry by the Special Chief Engineer during the meeting, it was disclosed that Messrs. Larsen & Toubro would be prepared to reduce their price further so as to be equal to the lowest quotation, namely, that of Messrs. Voltas Ltd. It is accordingly decided that the D8 Crawler Tractor offered by Messrs. Larsen & Toubro be purchased at a price equal to that offered by Messrs. Voltas for their equipment (F.O.R. Madras) plus transport charges from Madras to Talguppa.

(2) Purchase of Water supply materials.

(1) C.I.pipes with collars.

The proposal of the Special Chief Engineer are agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.C.Sundararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charges and loading and unloading charges involved in the offer F.O.R. Talguppa are taken into consideration, as Messrs.

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It is stated that the motor is required immediately to operate the compressor and that on this groundthe lowest offer of Rs.9500/- with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs. Tropical Engineering Co., for Rs.9600/- be accepted subject to the fi m giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that Messrs. Tropical ngineering Co., do not agree to supply within the next one month, orders may be placed with Messrs. Goldsmith & Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orde with them.

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(5) Purchase of copper wire 6 BS and 10 BS

(continued)

The purchase is stated to have been made already. Necessary ratification or sanction will have to be obtained from Government separately. The ad hoc Committee need not consider this.

(6) Purchase of materials for operating the Mortar Mills. M.S.Shafting 3" dia.12" long - No. required 90.

It is stated that the firm with which orders were placed at Rs.91.34 F.O.R. Bombay pleads inability to make the supply. Messrs. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier) which works out to a little over Rs.91/- per Cwt and which is somewhat less than the quotation originally accepted. The delivery is at Stores at Bargal. The Special Chief Engineer recommends that the purchase may be made from this Firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have normally thought of calling for fresh tenders.

It is noted that Messrs. Natwarlal & Co., who had not previously quoted have now made an offer at Rs.90/- per C.T F.O.R. Talaguppa. Since this firm had not quoted before, and the supply is at random lengths, and also because the supply is F.O.R. Talgup a their quotation is not taken into consideration.

(7) Pulleys: 15" and 40" Dia.

In this case also Messrs Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/- for 15" Dia. Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency, it is inevitable that the revised price of

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As regards 40" Pulleys, it is felt that the revised offer of Messrs. Thaibey Machinery Stores need not be considered, and that in view of the failure of the Coop making the next higher offer of Rs.189/- to make the only the offer of Messrs. Calcutta Corporation at the same rate of Rs.210/- may be accepted and orders placed with them, instead of with Messrs. Thaibey Machinery Stores.

(Mohammed Fasiuddin)
Under Secretary to Government
Electrical Department.

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PROCEEDINGS OF THE GOVERNMENT OF MYSORE.

SUBJECT: Purchase of equipment and machinery for Sharavathi Valley Project.

R e a d -

Letter No.318-20/P.S/S dated the 11th November 1959 from the Special Chief Engineer, Sharavathi Valley Project.

The proposals put up by the Special Chief Engineer were considered by the Ad hoc Committee at its meeting held on 16th November 1959 which resolved as hereunder:-

1. Purchase of Earth moving equipment (Crawler Tractor with attachment).

The quotations of Messrs. Standard Machinery Co., Grieves Cotton, William Jacks as also the quotation of Messrs. Larson and Toubro for D9 Catterpillar Tractor have not been considered because in the first three cases the draw-bar H.P. is inadequate and in the last case the H.P. is very much higher than that required. The remaining quotations are those of Messrs. Voltas Ltd., and that of Messrs. Larson and Toubro for D8 Caterpillar Tractor. In the former case, the quotation comes to Rs.2,05,840/- including the cost of accessories. This price is F.O.R. Madras. It is however found that the transport charges from Madras to Talaguppa will be about Rs.4000/-. This raises the quotation of Messrs. Voltas Ltd., t about Rs.2,09,840/- if delivery F.O.R. Talaguppa is taken into account. During the discussions, the Special Chief Engineer considered that the equipment offered by Messrs. Larson & Toubro for D8 Crawler would be preferable (although he had earlier recommended the acceptance of the quotation of Messrs. Voltas) as it is equippedwith oil type steering clutch and life-time lubrication for rollers. Since the quotations were taken into consideration Messrs. Larson & Toubro stated to have written to the Special Chief Engineer saying that they are prepared to reduce their quotation by Rs.5000/-. In view of the preference expressed by the Special Chief Engineer the Committee considered whether Messrs. Larson & Toubro may not be asked to reduce their quotation further so as to be about equal to Messrs. Voltas. On enquiry by the Special Chief Engineer during the meeting, it was disclosed that Messrs Larson & Toubro would be prepared to reduce their price further so as to be equal to the lowest quotation, namely, that of Messrs. Voltas Ltd. It is accordingly decided that the D8 Crawler Tractor offered by Messrs. Larson & Toubro be purchased at a price equal to that offered by Messrs. Voltas for their equipment (F.O.R. Madras) plus transport charges from Madras to Talaguppa.

2. Purchase of Water supply materials

(1) G.I.pipes with collars.

The proposal of the Special Chief Engineer are

(continued)

agreed to except in the case of 2" pipes where it is seen that the quotation of Messrs. M.C.Sundararajan & Co., will work out to almost the same as that of the lowest, namely Messrs. Tube Tools and Hardware Market Co., if the transport charges and loading and unloading charges involved in the offer F.O.R. Talaguppa are taken into consideration, as Messrs. Sundararajan & Co., are prepared to deliver the materials at the workspot from ready stocks. It is therefore decided that the quotation of Messrs. Sundararajan & Co., for 2" pipes (12,200 Rft) may be accepted.

In regard to other items, the Special Chief Engineer's recommendations are agreed to. It is noted that in the case of G.M.Gland cocks, wheel valves and S.W. big cocks, the quotations other than the lowest have been recommended for the reasons that the firm with which the orders are proposed to be placed are the sole agents.

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30 H.P. Motors - Special Chief Engineer's recommendation approved.

75 H.P. Motors.

It is stated that the motor is required immediately to operate the compressor and that on this ground the lowest offer of Rs.9500/- with delivery during February 1960 cannot be accepted. It is therefore agreed that the proposal for the purchase of 75 H.P. motor of Messrs Tropical Engineering Co., for Rs.9600/- be accepted subject to the firm giving the necessary earnest money deposit before orders are placed. If however, the Special Chief Engineer finds that Messrs. Tropical Engineering Co., do not agree to supply within the next one month, orders may be placed with Messrs. Goldsmith Sons & Co., as in that even their time of delivering the equipment would be close enough to warrant placing orders with them.

4. Blue printing machine.

The only quotation received, namely that of Messrs. Lassen Engineering Co., Ltd., Madras may be accepted subject to the terms and conditions mentioned in the note of the Special Chief Engineer.

5. Purchase of copper wires 6 BS and 10 BS.

The purchase is stated to have been made already. Necessary ratification for sanction will have to be obtained from Government separately. The ad hoc Committee need not consider this.

6. Purchase of materials for operating the Mortar Mills M.S.Shafting 3" dia. 12' long - No.required 90.

It is stated that the firm with which orders were placed at Rs.91.34 F.O.R. Bombay pleads inability to make the supply. Messrs. Thaibey Machinery Stores, Madras who had also quoted before have now come forward to make the supply at Rs.19.50 per running foot (although they had quoted Rs.17.70 per running foot a little earlier) which works out to a little over Rs.91/- per Cwt. and which is somewhat

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less than the quotation originally accepted. The delivery is at Stores at Kargal. The Special Chief Engineer recommends that the purchase may be made from this firm at the rate quoted. This is accepted in view of the extreme urgency brought to the notice of the Committee by the Special Chief Engineer for getting this equipment for working the Mortar Mills now that the working season has already commenced, although the Committee would have normally thought of calling for fresh tenders.

It is noted that Messrs. Natwarlal & Co., who had not previously quoted have now made an offer at Rs.90/- per Cwt. F.O.R. Talaguppa. Since this firm had not quoted before and the supply is at random lengths, and also because the supply is F.O.R. Talaguppa their quotation is not taken into consideration.

7. Pulleys: 15" and 40" Dia.

In this case also Messrs. Thaibey Machinery Stores with whom orders were placed on the basis of their lowest quotation approved by the Committee, earlier, have backed out and stated that there has been some typographical error in their quotations and the rates quoted are Rs.54/- for 15" Dia Pulley and Rs.210/- for 40" Pulleys. With regard to 15" Pulleys, in view of urgency it is inevitable that the revised price of Rs.54/- has to be accepted as no earnest deposit was recovered from the contractor and that no penalty can be levied and no contract had also been concluded. The proposal of the Special Chief Engineer to place orders with this firm for 15" Pulley at the revised price of Rs.54/- is therefore agreed to only for the number immediately required by the Special Chief Engineer (stated to 50).

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ORDER NO.PWD 394 GSH 59.

Dated Bangalore the 5th January 1960.
Pushaya 15 Saka Era 1881.

The recommendations of the Ad hoc Committee are accepted and approved.

By Order and in the name of
the Governor of Mysore,

5/1/60

(Mohammed Yasihuddin)
Under Secretary to Government
Electrical Department.

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To

The Special Chief Engineer, Sharavathi Valley Project,
Kargal Post, Shimoga District.

The Accountant General, Mysore, Bangalore through Finance Dept.

The Chief Accounts Officer, Sharavathi Valley Project, Kargal
through Finance Department.

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[redacted]ORE PUBLIC WORKS DEPARTMENT.

No.S/1678-80/Stores.

Encl:

Office of the
Special Chief Engineer,
Sharavathi Valley Project,
Kargal, dated..18th. Jan 1960.

To

The Secretary to the Government of Mysore,
Public Works & Electricity Department,
Bangalore.

Sir,

Sub:- Minutes of the Adhoc-Committee for the purchase of machinery for Sharavathi Valley Project held on 15-12-59.

Ref:- Letter No.PWD 394 ESH 59 dated 17-12-59.

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I am to state that Messrs. Larsen & Toubro, Ltd., Madras-2, have been informed by the Executive Engineer, Stores Division, that their quotation for the supply of earth-moving equipment at a cost of Rs.2,05,400/- F.O.R. Madras, has been proposed to be accepted subject to approval of Government and has requested them to keep the prices firm for a further period of one month i.e., upto end of January 1960.

In the circumstances, I request you kindly to communicate early approval of Government in the matter.

Yours faithfully,

31/12/59

(L.C.Muniswamy Reddy)
Special Chief Engineer,
Sharavathi Valley Project.

rv.

Orders have been issued. May be filed in the concerned file

8/1/60